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# Create Microsoft SharePoint 2010 application

Prerequisites
1. Install and configure VMware vFabric Application Director with vCloud Director.
2. Add **Microsoft_Sharepoint_2010** as a service in the Application Director Catalog.

Method – 1: From Application Director instance
1. Login to the Application Director with a user that has application architect rights.
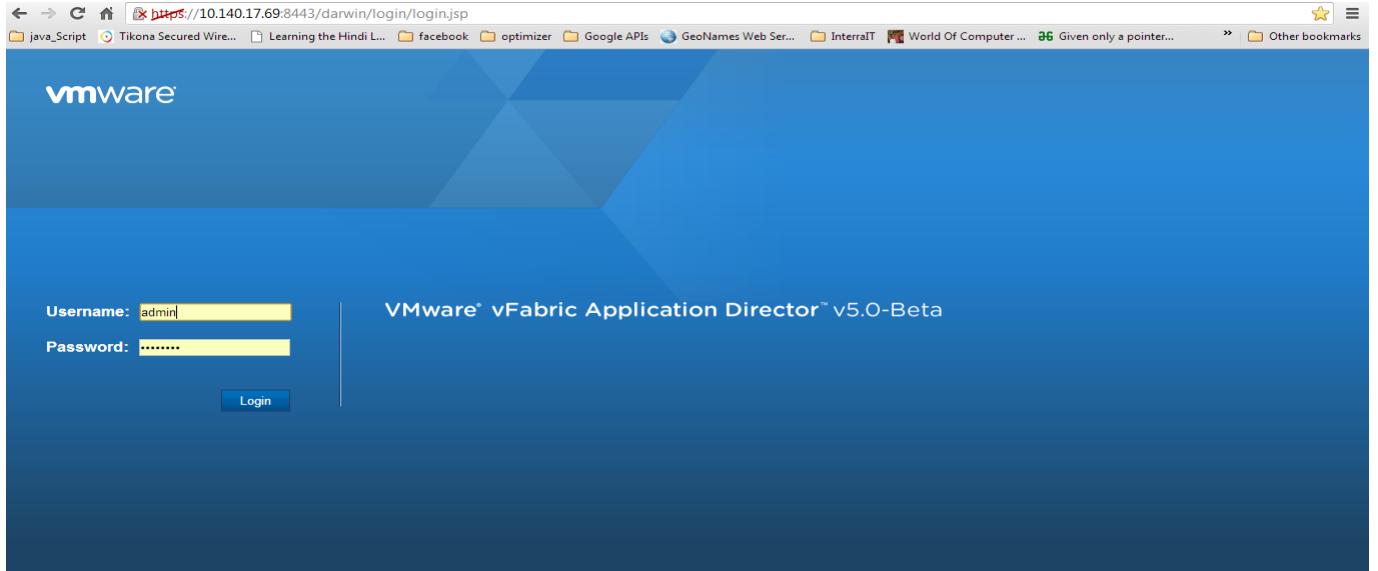
2. Now click on the "New" Link as shown to create new application for SharePoint server.
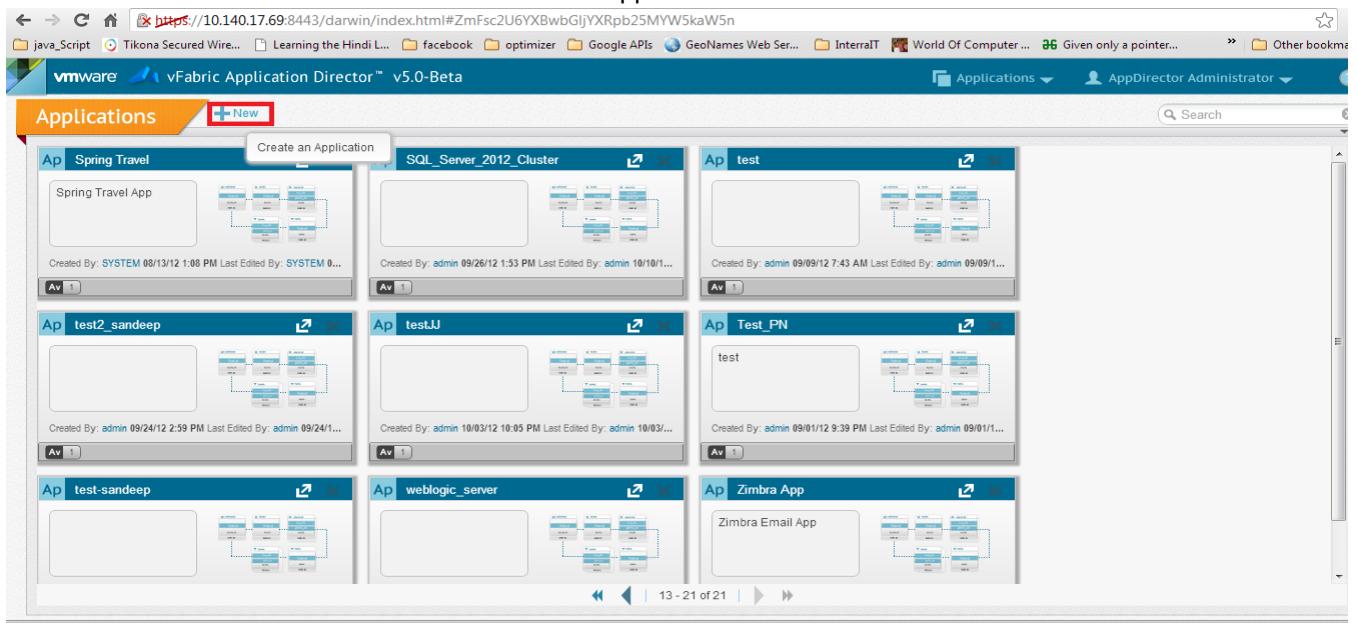

3. Type "**Microsoft SharePoint Server 2010**" in place of "**Application Name**" and then click the **save** icon
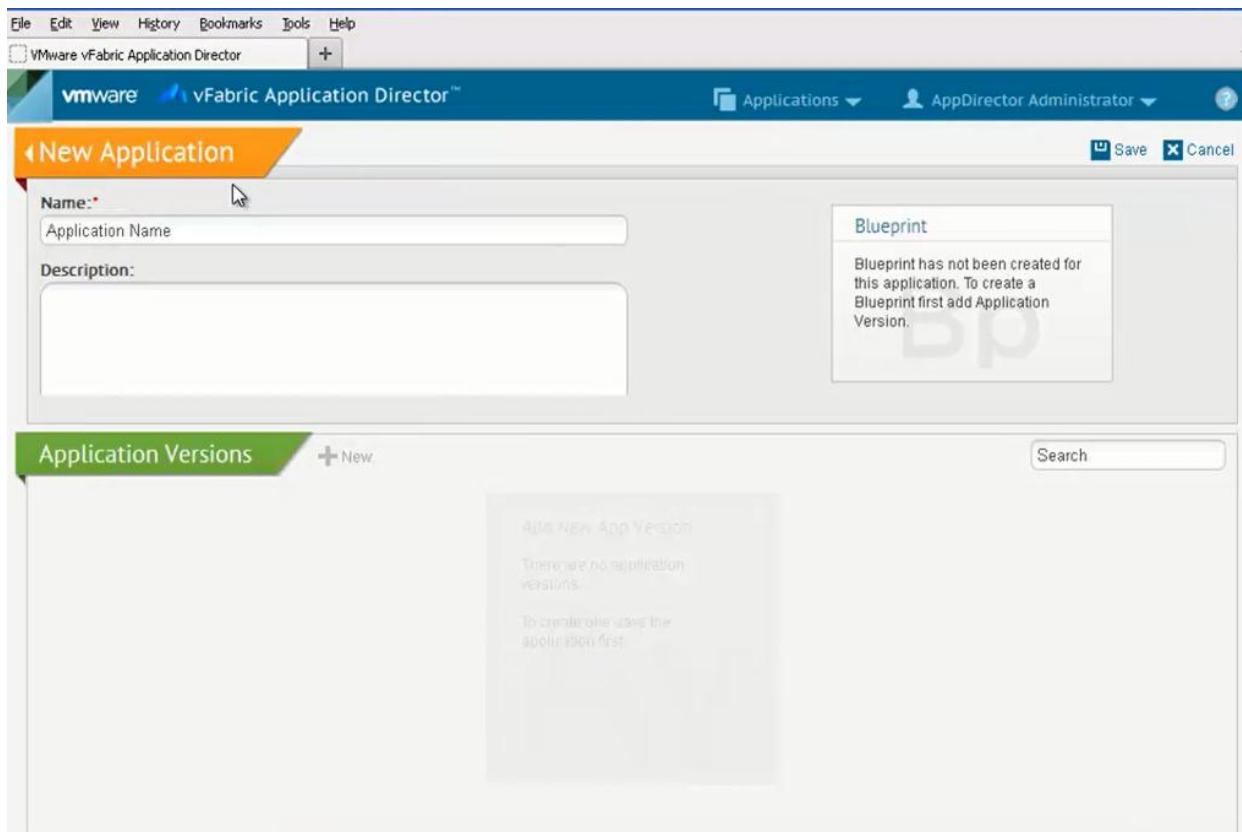
4. After Saving the application, Click on besides the Application Versions to assign the app version as shown
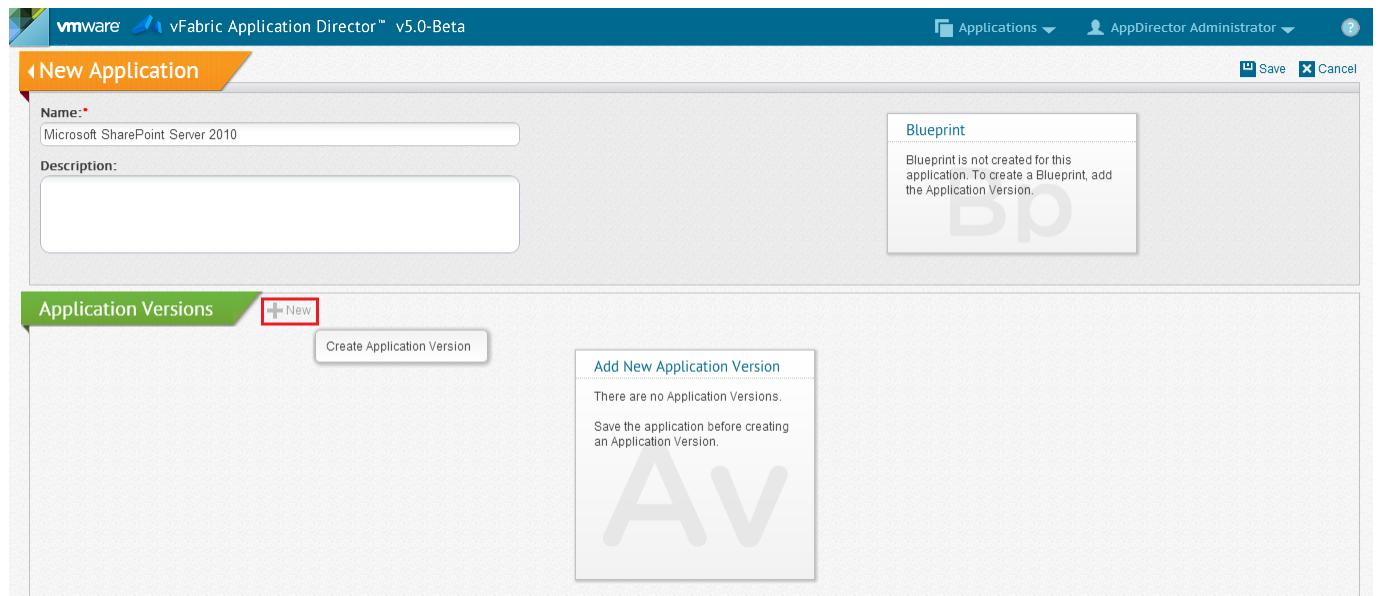

Type "1.0.0" in the text box below Version and save the application as shown below

5. After that click on the "Create Blueprint" icon as shown


Immediately the page will be redirected to the below page

6. You will see **Logical Templates** on the bottom left.
7. Drag & drop the template of Windows flavor for example **W2K8 R2 Enterprise Edition SP1 1.0.0** in the central white canvas area. This template needs to have been uploaded and registered in the cloud provider.
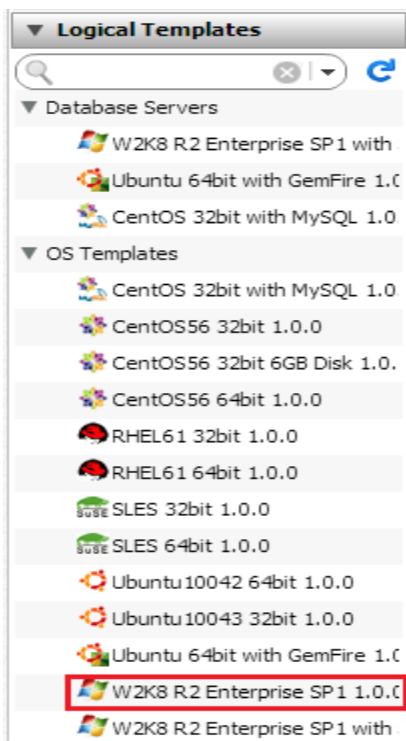

8. Now we will have a node in the canvas. Click on Save icon to save the application.
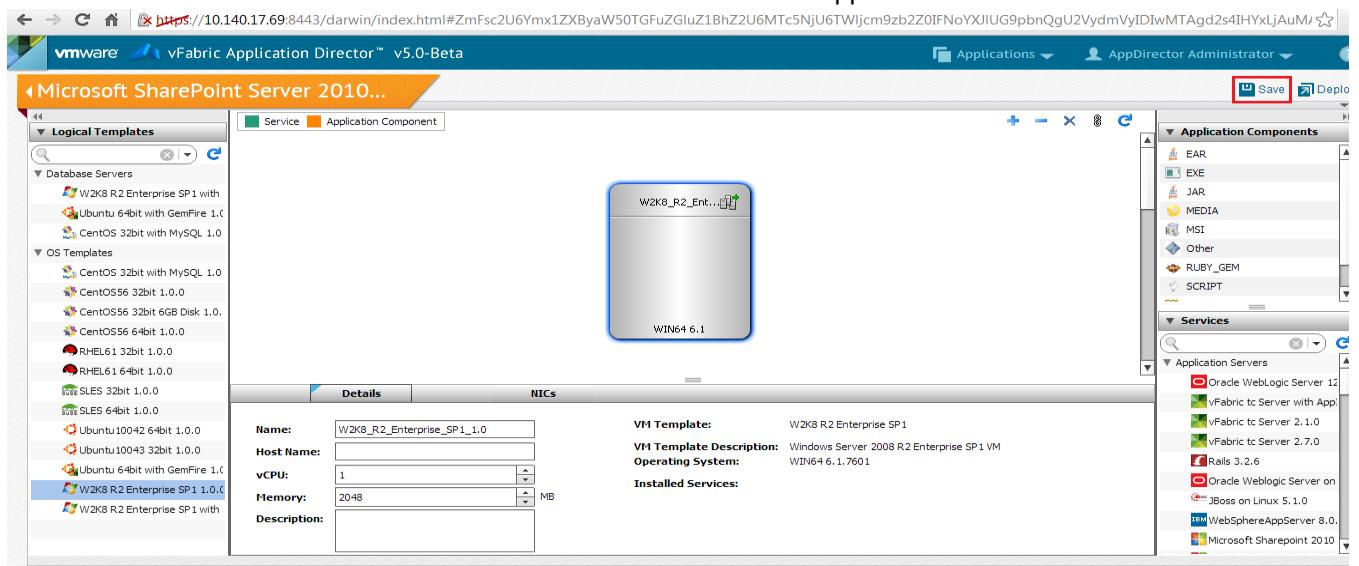

9. Application has been saved
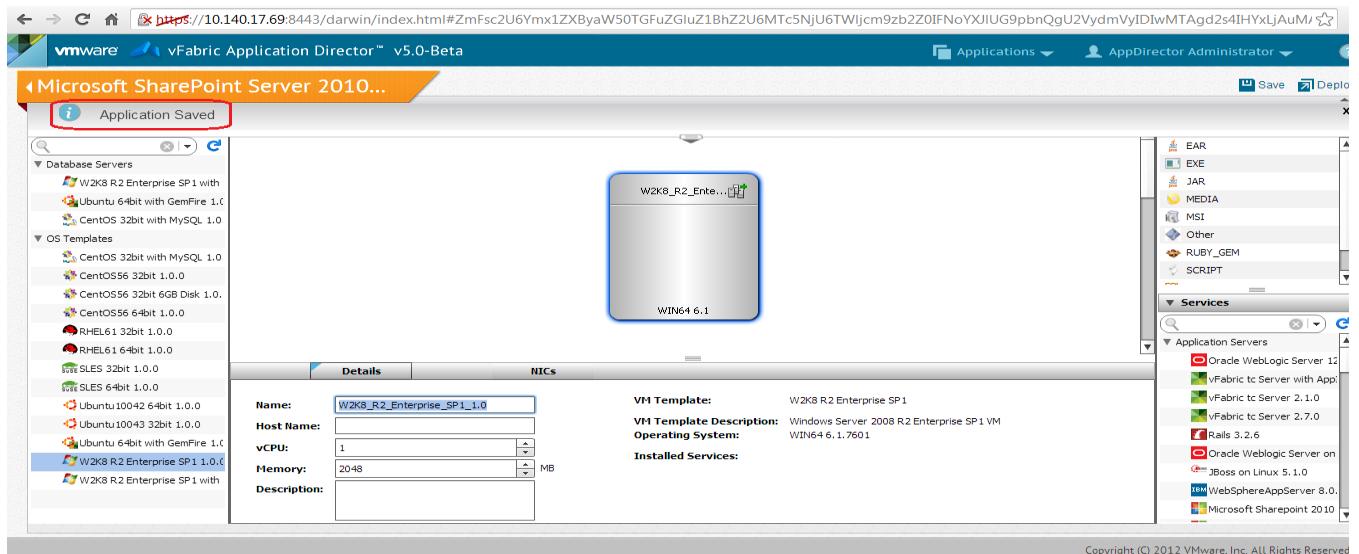
10. Type "**share**" below the **Services** panel in the right side and press the **"Enter"** key as shown below

11. Drag and drop the service **Microsoft_Sharepoint_2010** into the OS template as shown below
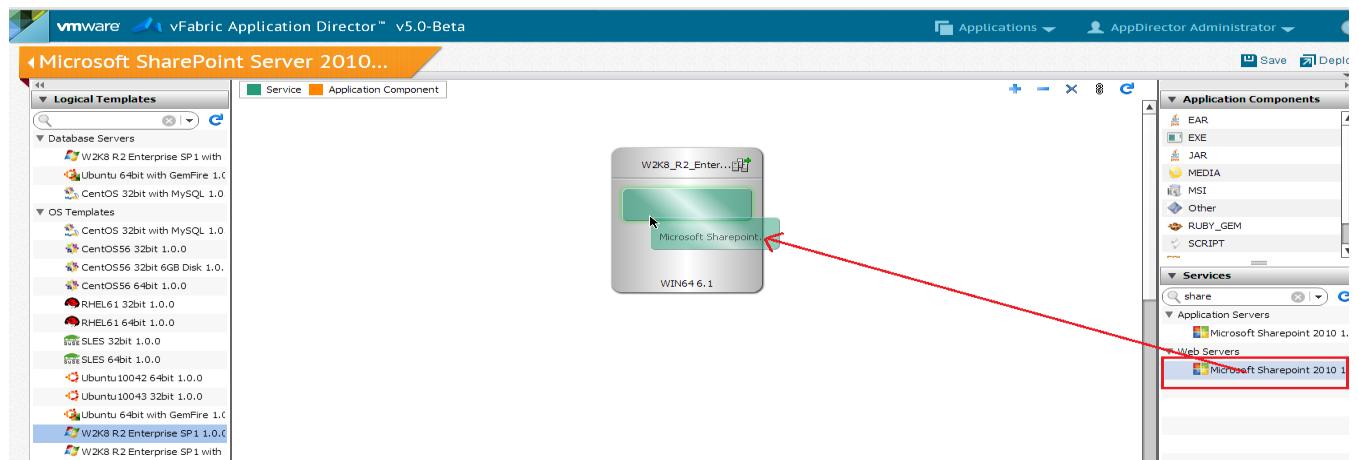
12. Now click on the **Microsoft_Sharepoint_2010** service then Click the **Properties** Tab to display the properties
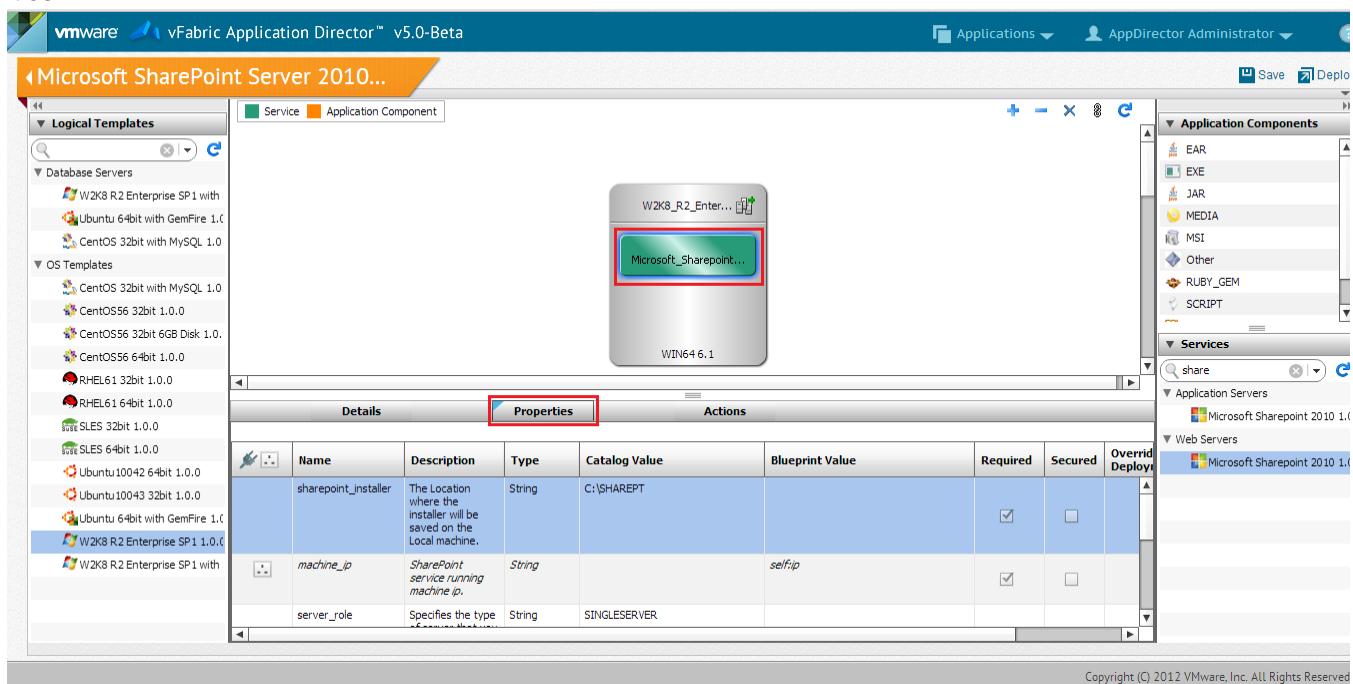

13. To change other default value, click on the respective properties and change the value. For example to set the "**sharepoint_installer**" property to **"C:\MSSharePoint"**. Click on it
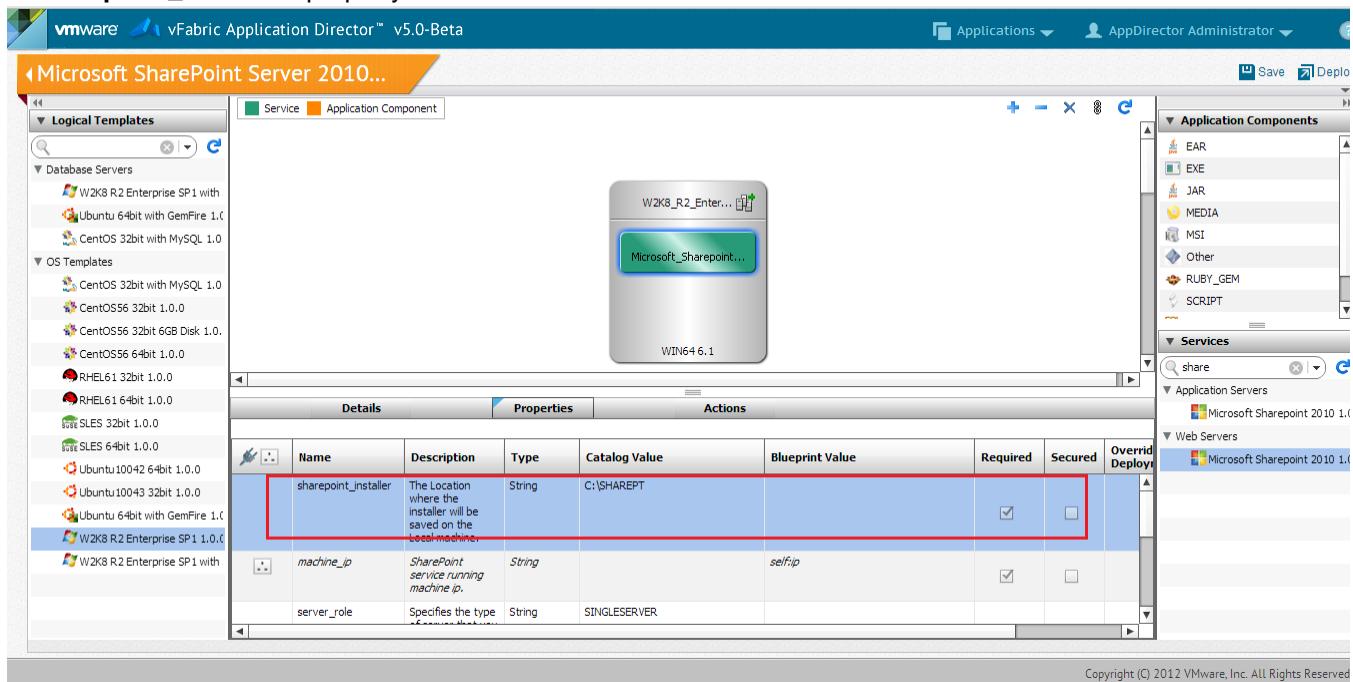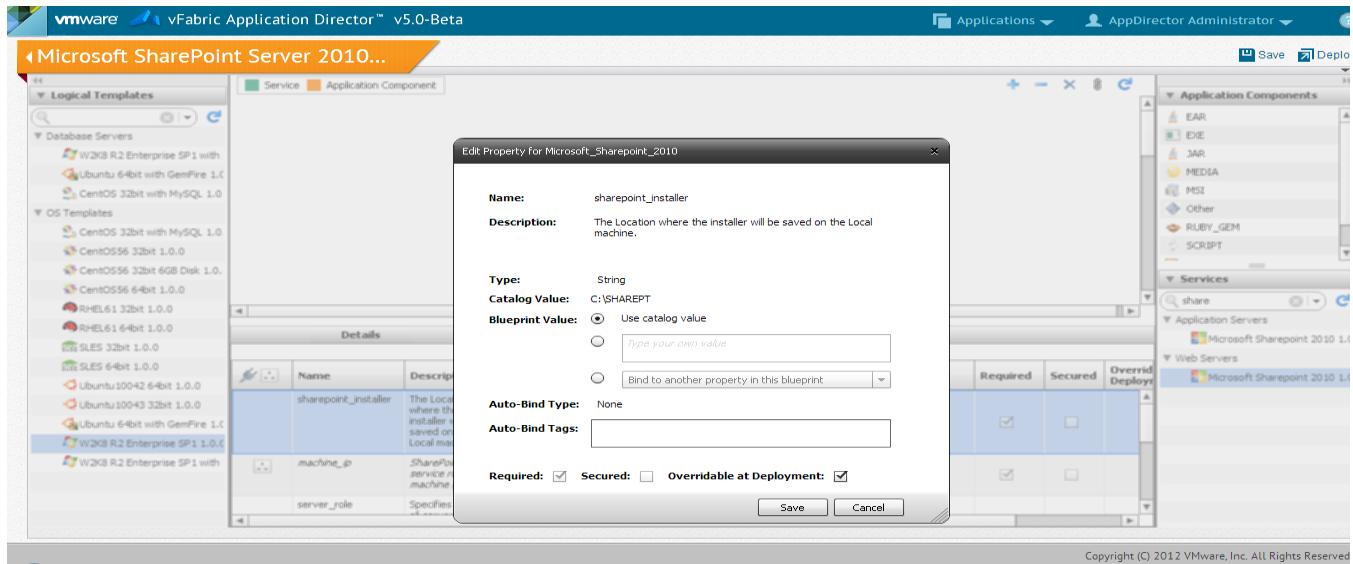
14. Then Click on the second radio button to set our own value and finally click on **Save** button as shown
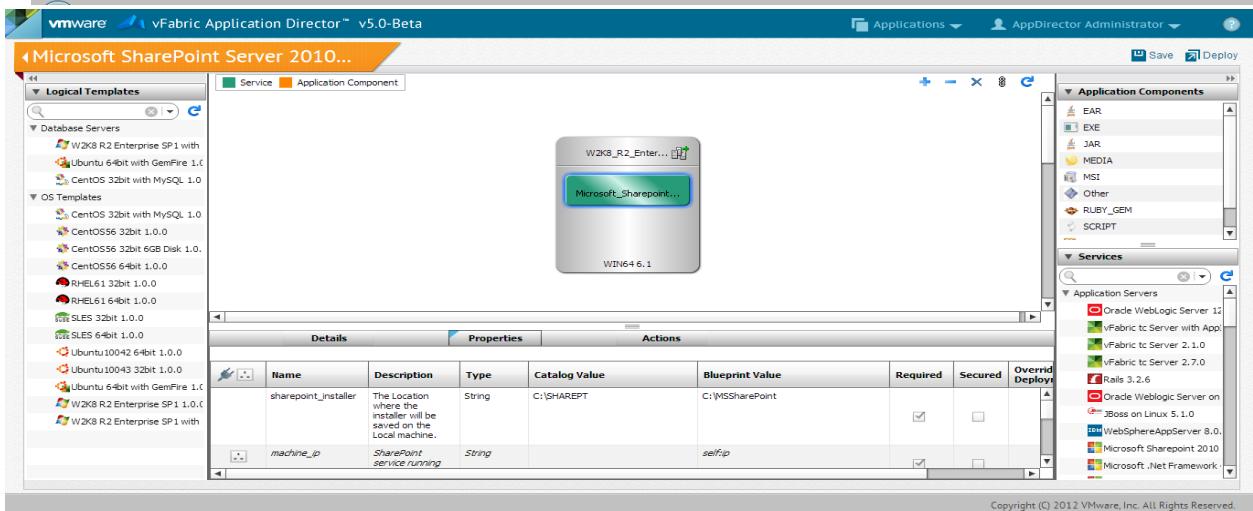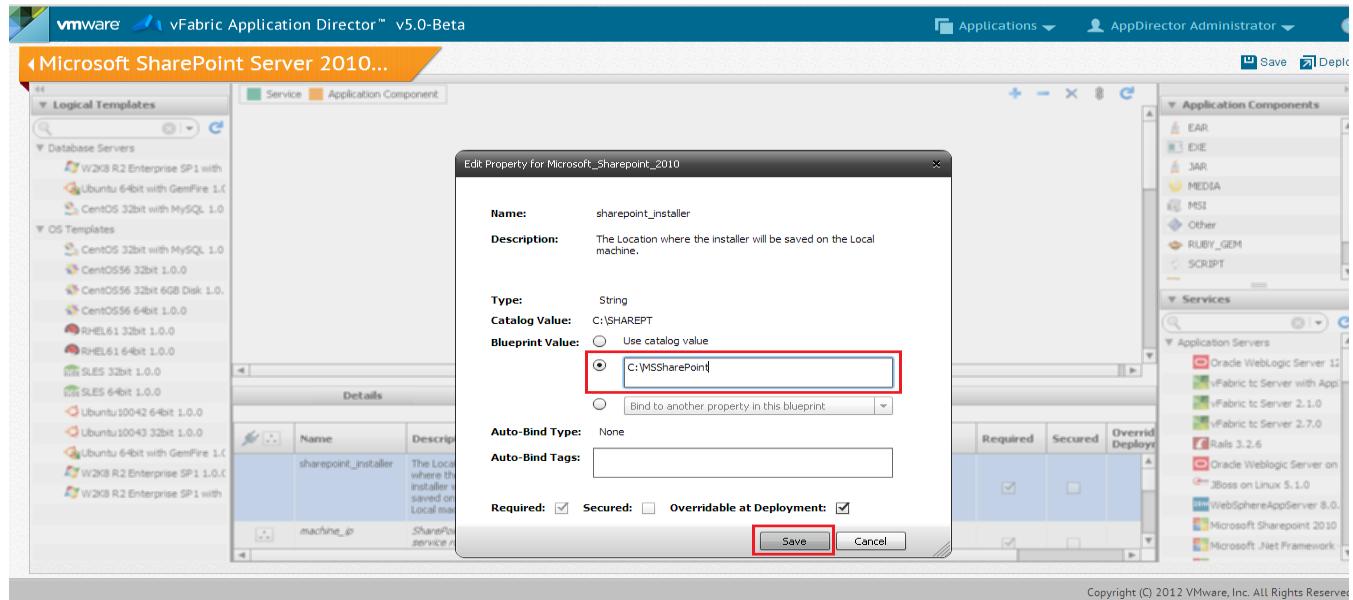

Follow the above step to change other default values as per the requirements.

15. (**Optional**) Below steps demonstrates way to create a sample site in the Sharepoint, using script component of Application Director.
From the **Application Components** panel on the right, drag and drop the **SCRIPT** labeled on Node as shown
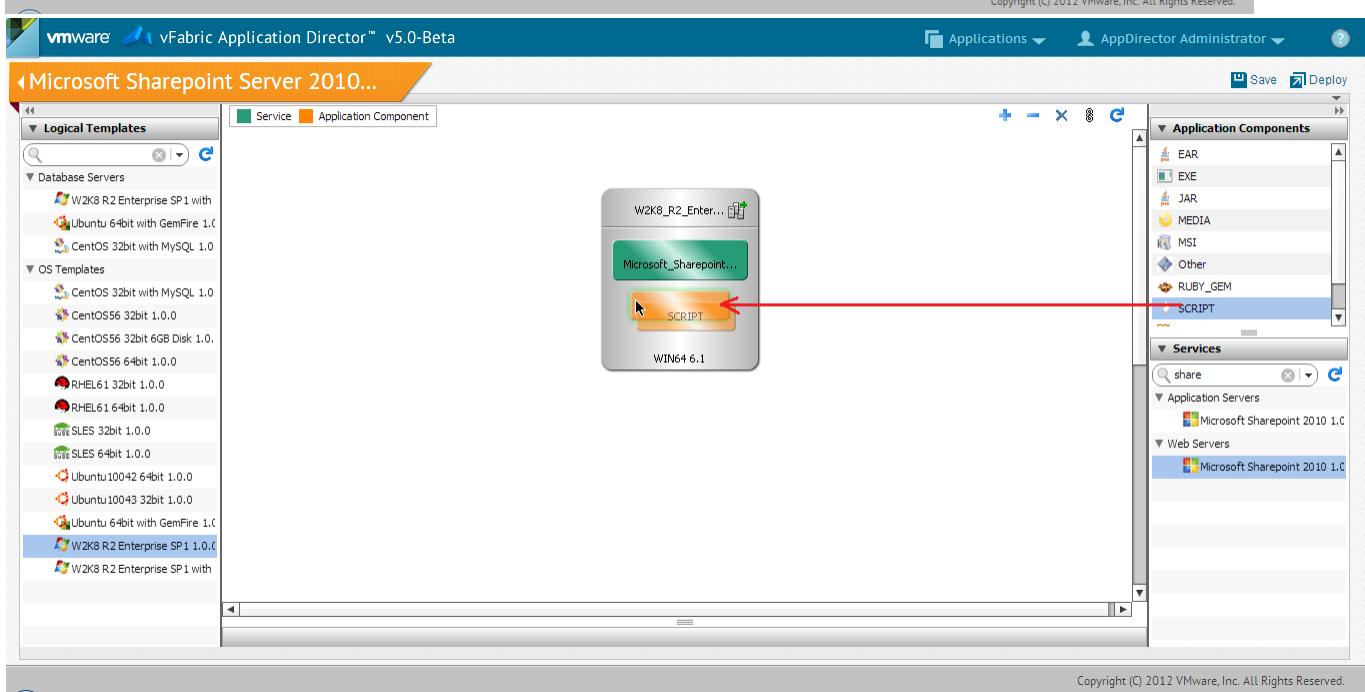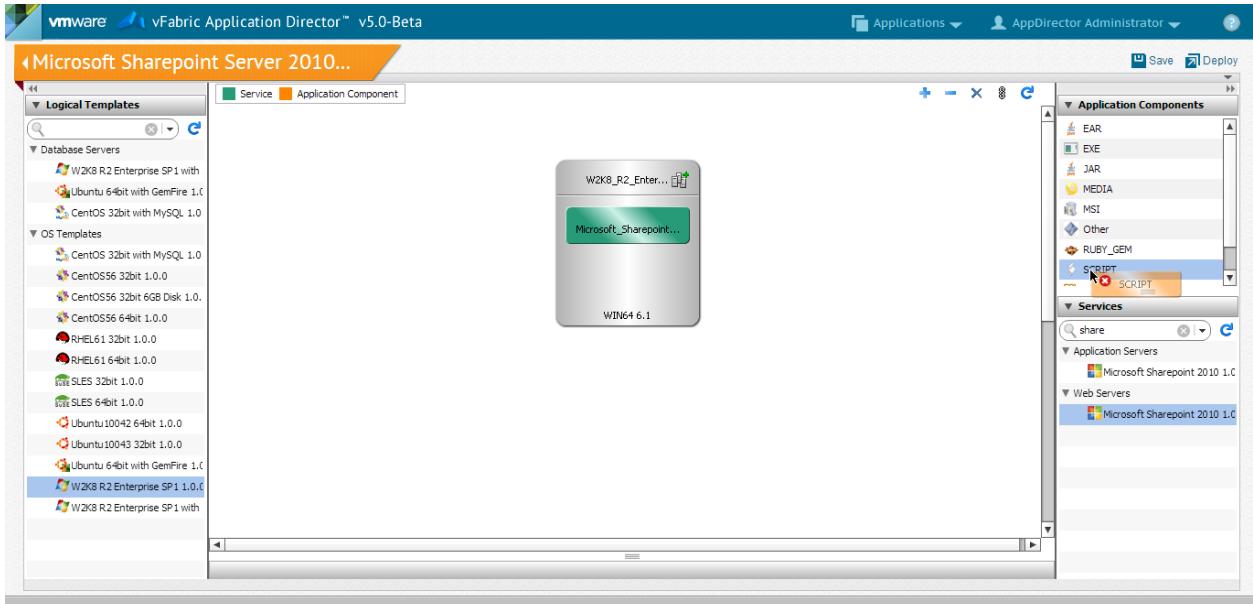
16. Rename the dragged script by click on it and type **"Sample_App"** in the **Name** field as shown below
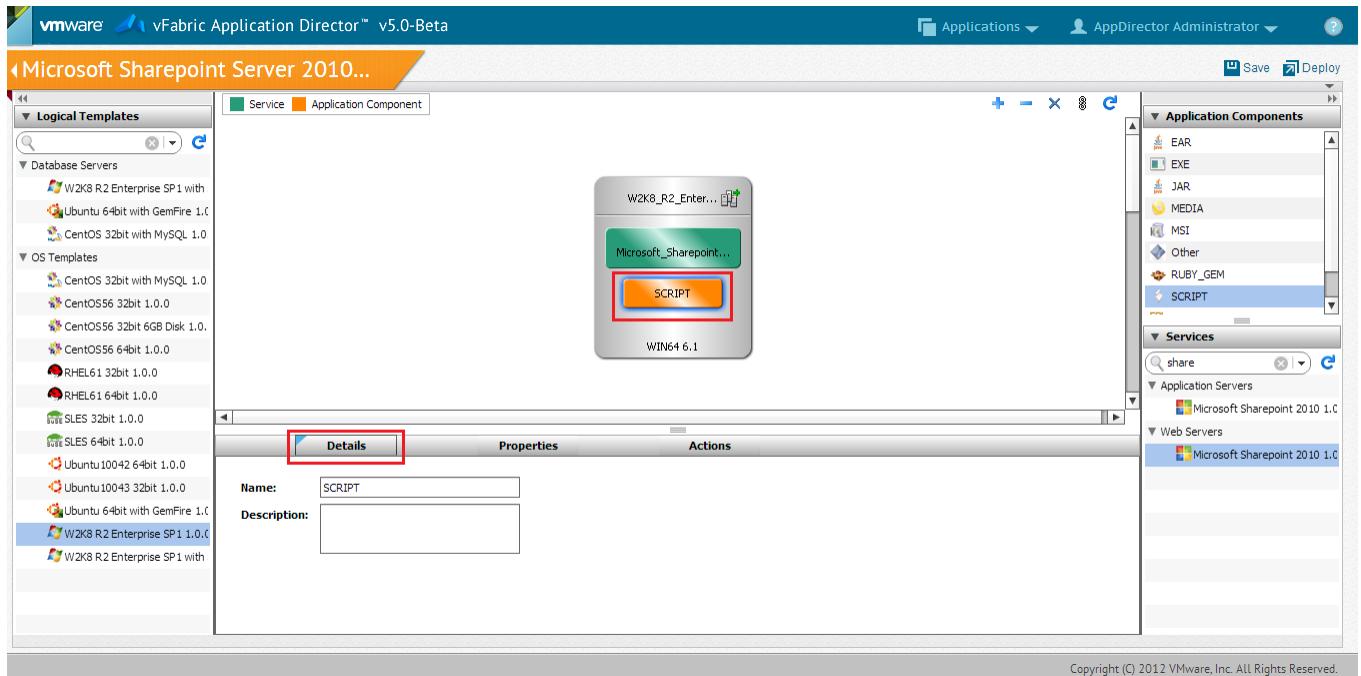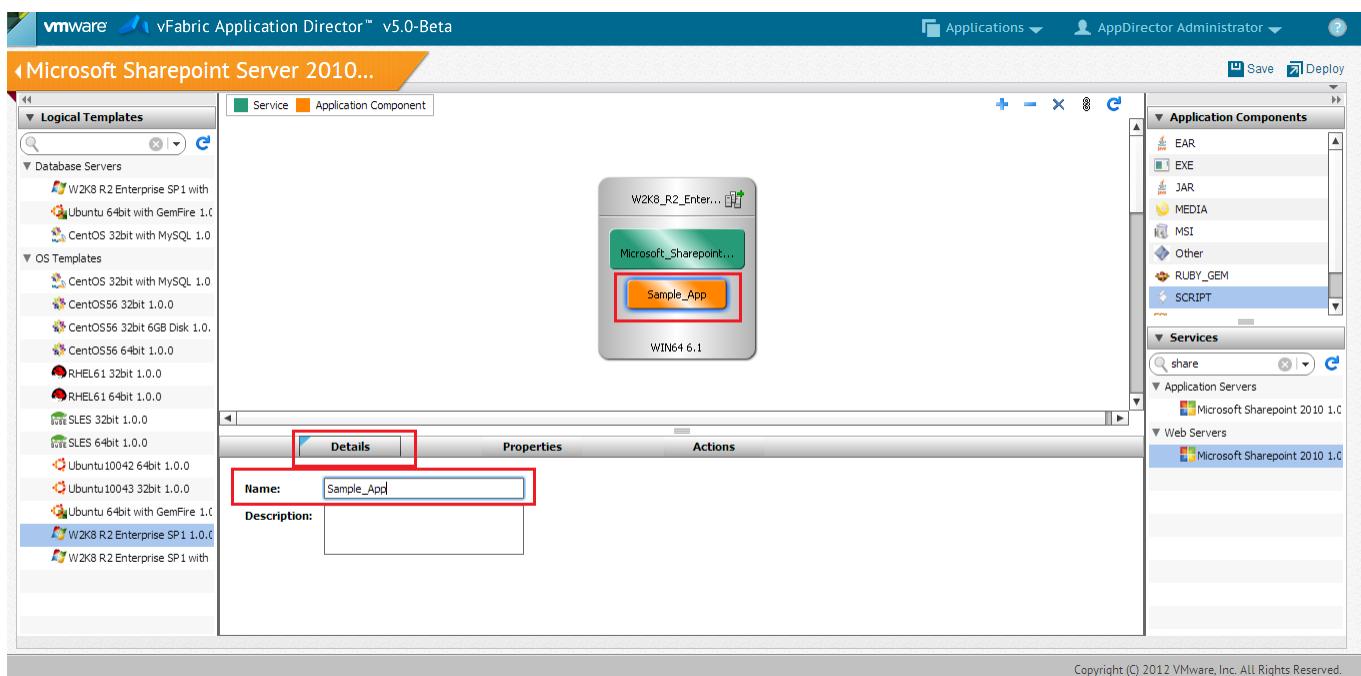
17. Click on **Sample_App** and go to **properties** tab in the lower pane. Click on the ➕ icon to add properties for this script as shown
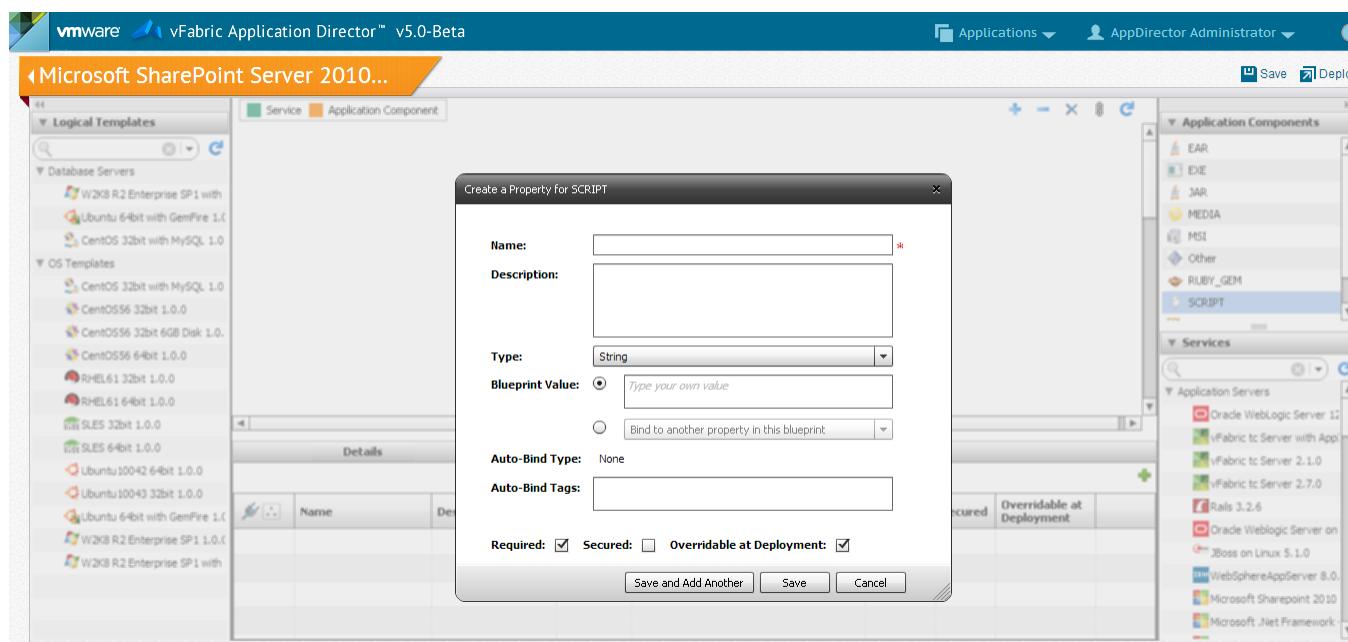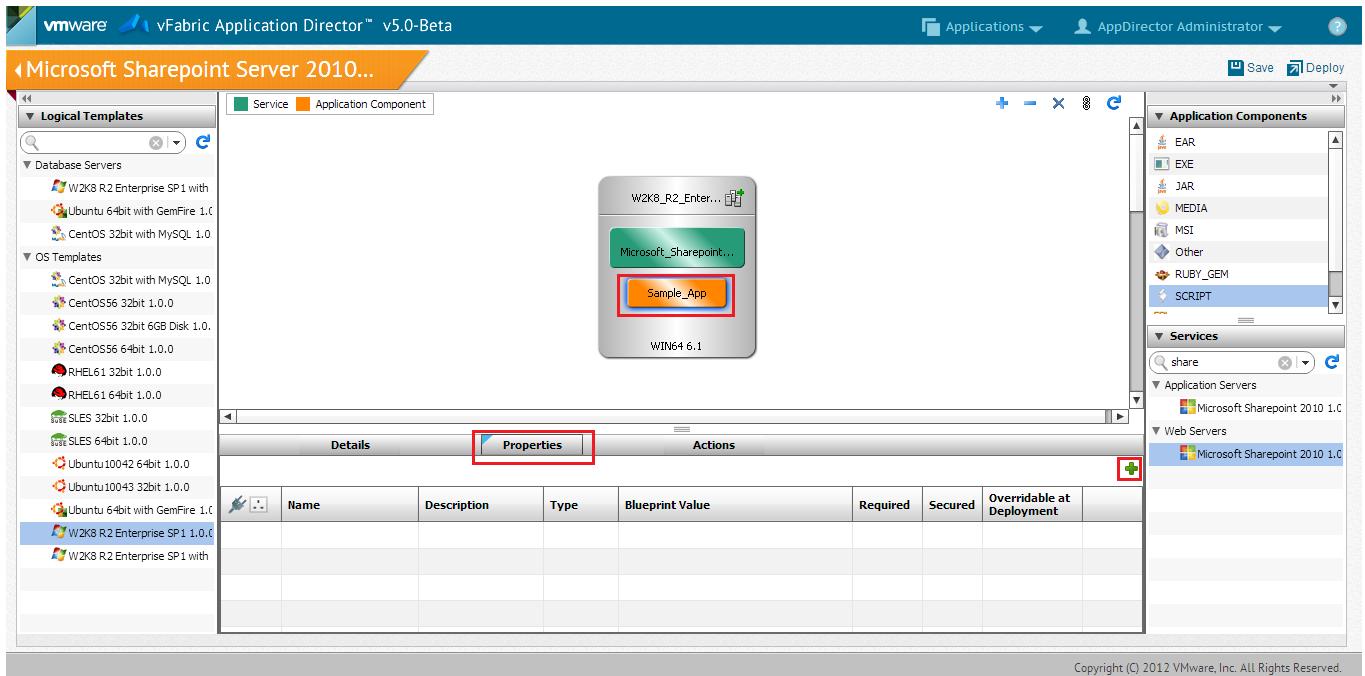
18. Type **sample_app_dir** in the Name field and **C:\MSSharePoint** in the Blueprint value field and finally click on **save** button as shown
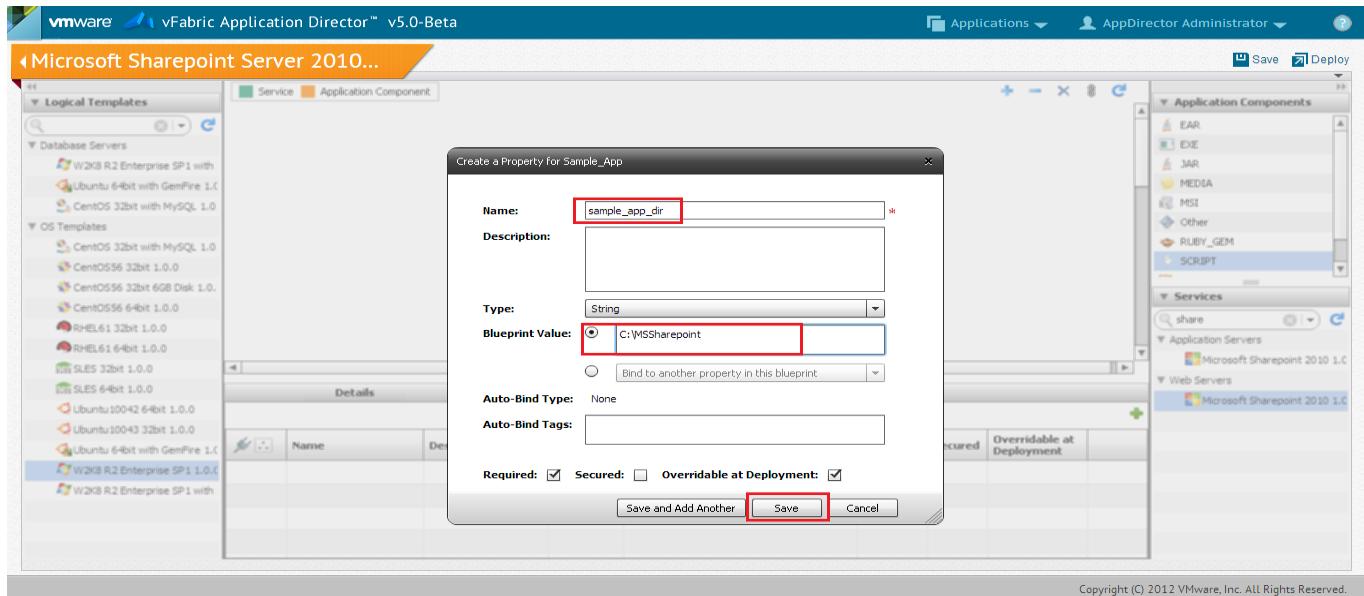
19. Now add the following properties and bind to its corresponding blueprint values as shown above (step 8-9)

Properties	Type	BluePrint Values
apppool_name	string	Apppool_4484
sampleapp_port	string	4484
sampleapp_sitename	string	samplesite
admin_user	string	*darwin*
admin_password	string	*ca$hc0w*

20. Now click on the **Actions** tab to add script
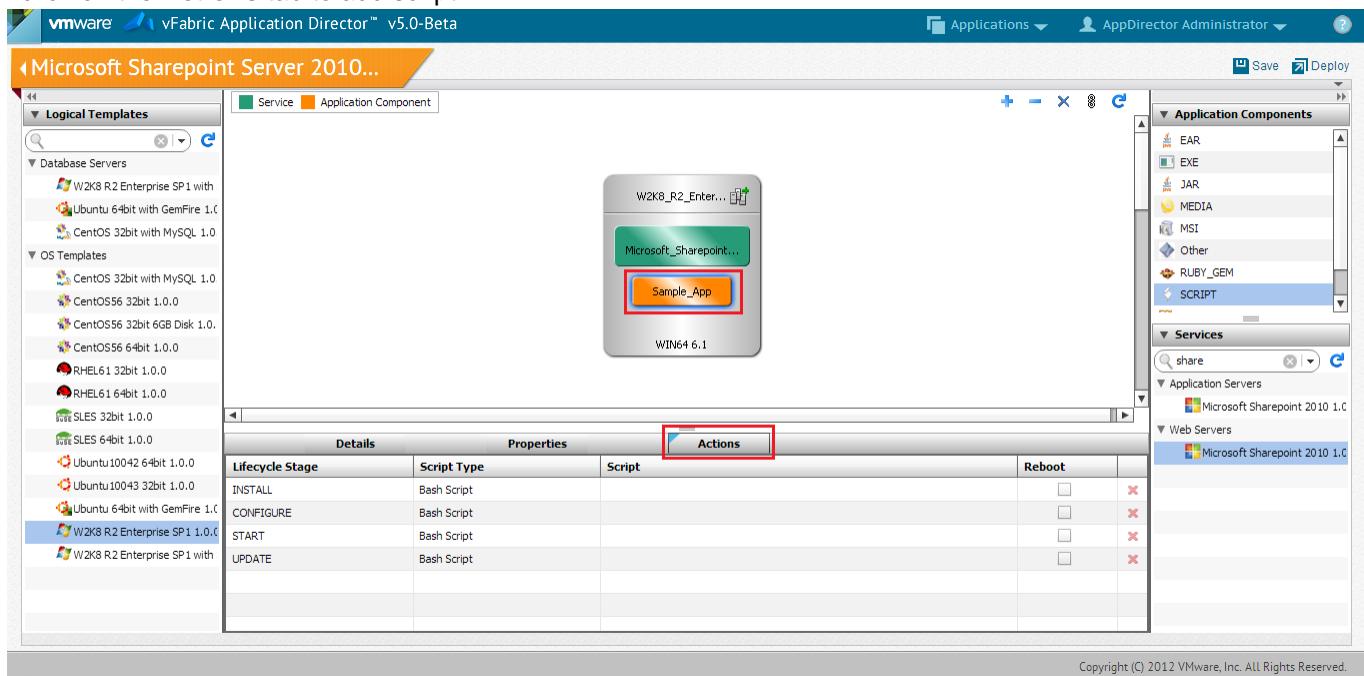
21. Click on the drop down list below the **Script Type** tab to select **Windows PowerShell Script** as shown below
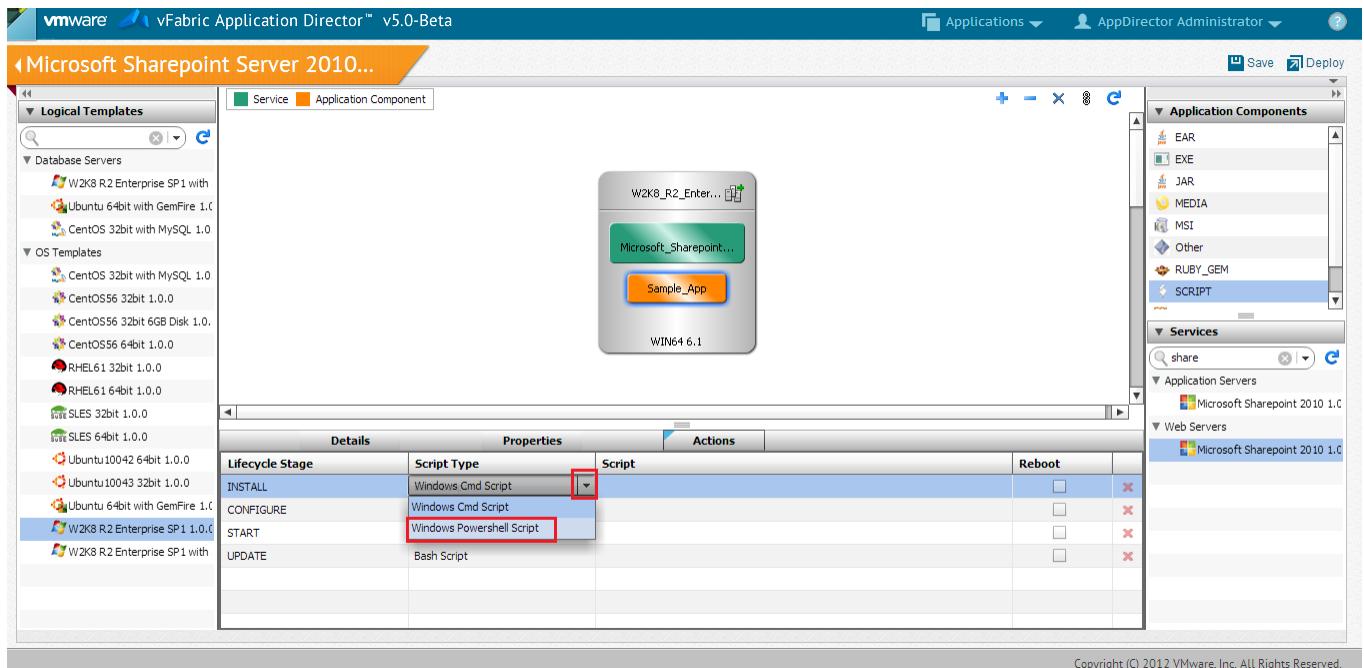
Now double click on the blank part below the **Script** tab to add the script
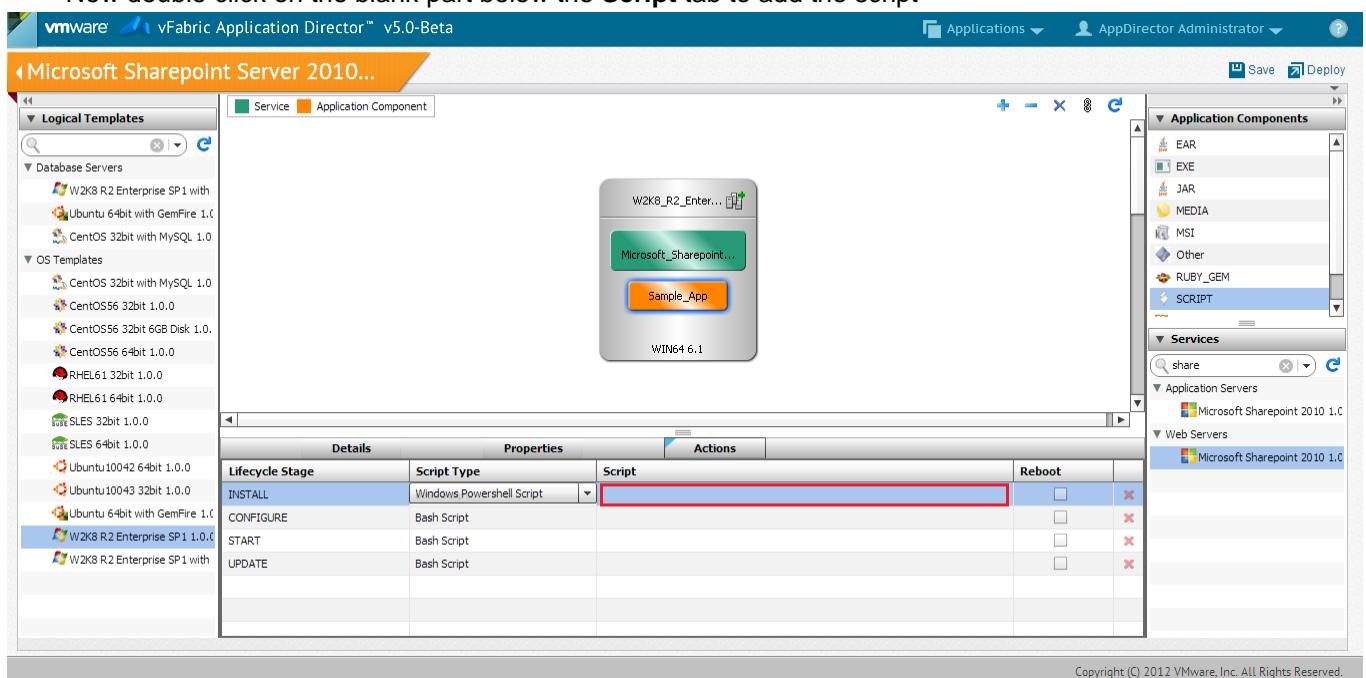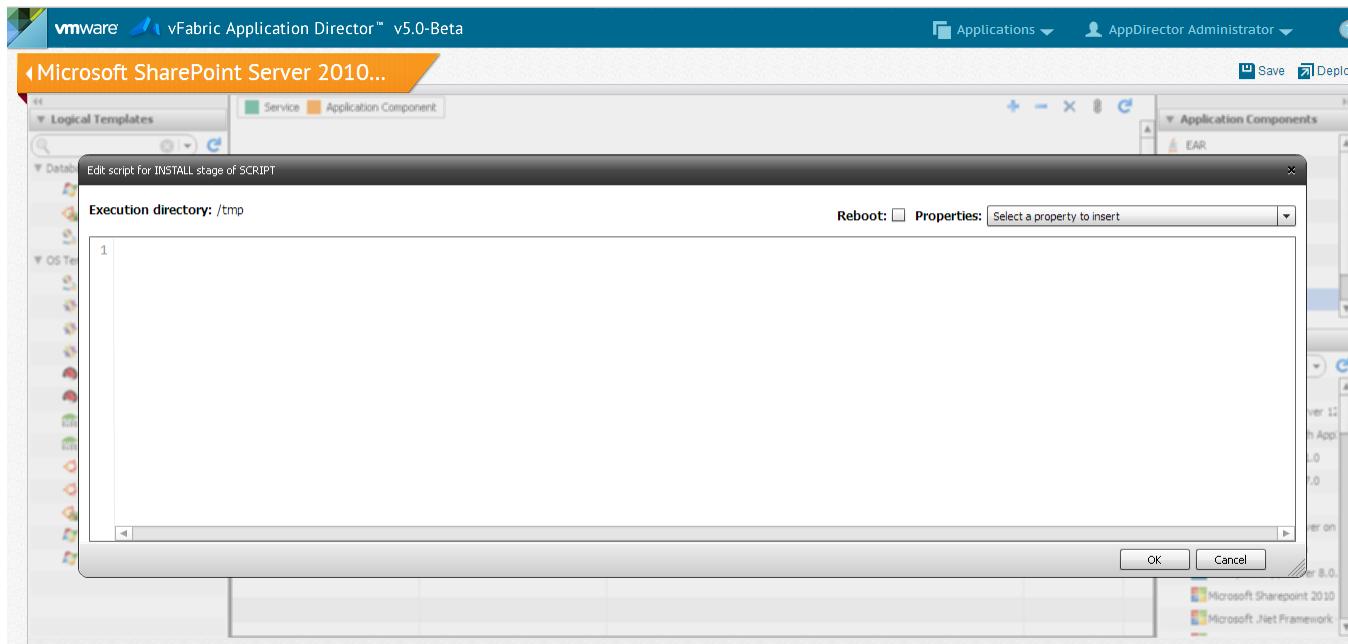
22. Now copy and paste following content into this page and click OK

```
################################################################################
############################
# Purpose: 1. This script creates a sample website(sample_app) to demonstrate the usage of Sharepoint.
#
################################################################################
############################

cls
############### INTERNAL PARAMETERTS ################
# Name of web site(sample app)
$SITENAME = "$sampleapp_sitename"
# sample app running port
$SITEPORT = "$sampleapp_port"
# Sample app pool name(Used to separate different Web applications and Web sites into groups)
$APPPOOLNAME = "$apppool_name"
# Sample app directory
$APP_DIR = "$sample_app_dir\APP"
# Script file that will create sample app
$WEBAPP_FILE = "$APP_DIR\CreateWebApp.PS1"
$TEMP_FILE = "$APP_DIR\Temp.txt"
# Script file that will create site pool and add web site in to it.
$SITECOLLECTION_FILE = "$APP_DIR\CreateSiteCollection.PS1"
# To get copmputer name.
$COMPUTERNAME = get-content env:computername
# User name(machine user name)
$USERNAME = "$admin_user"
# password (machine password)
$PASSWORD = "$admin_password"
# Copy the password into tmp.txt file
$PASSWORD > "$APP_DIR\tmp.txt"
```

```
write-host "CREATING SAMPLE APP DIRECTORIES"
if (!(Test-Path -Path $APP_DIR))
{
    New-Item $APP_DIR -type directory
}

########VALIDATION FUNCTIONS#########################

Function check_error
{
    if (!$?)
    {
        error_exit $args[0]
    }
}

Function error_exit
{
    write-host $args[0]
    exit 1
}

Function valid_int
{
  $STR = $args[0]
  $ValidSTR = $true
  $ValidSTR = ($STR-match"^[0-9]{1,9}$")
  if(-not $ValidSTR){return $false}
    return $ValidSTR
}

#########PARAMETER VALIDATION#######################

write-host "PARAMETER VALIDATION -- START"

if (($SITENAME -eq ''))
{
    error_exit "ERROR: SITE NAME NOT SET"
}
if (($APPPOOLNAME -eq ''))
{
    error_exit "ERROR:APP POOL NAME"
}
if (($APP_DIR -eq ''))
{
    error_exit "ERROR:APP DIRECTORY NOT SET"
}
if (($USERNAME -eq ''))
{
    error_exit "ERROR:USER NAME NOT SET"
}
if (($PASSWORD -eq ''))
{
    error_exit "ERROR:PASSWORD NOT SET"
```

```
}
if (($SITEPORT -eq ''))
{
    error_exit "ERROR:PORT NOT SET"
}
elseif(!(valid_int $SITEPORT))
{
    error_exit "ERROR:NOT A VALID LISTENING PORT"
}


############ CREATING A POWERSHELL SCRIPT FILE TO CREATE A SAMPLE APP################
New-Item $WEBAPP_FILE -type file
$sw1 = new-object system.IO.StreamWriter($WEBAPP_FILE)
$sw1.writeline("add-PSSnapin Microsoft.Sharepoint.powershell")
# define a variable $Username(combination of computer name and username)
$sw1.writeline("`$Username = `"$COMPUTERNAME\$USERNAME`"")
# Store password into $Password varable from tmp.txt
$sw1.writeline("`$Password = get-content `"$INSTALLER\tmp.txt`"")
# Make secure string from password
$sw1.writeline("`$my_secure_password_string = convertto-securestring `"`$Password`" -asplaintext -force")
# Change the secure string in to encrypted string by  adding key in to password secure string
$sw1.writeline("`$my_encrypted_string = convertfrom-securestring `$my_secure_password_string-key (1..16)")
# Store encrypted string in to a txt file
$sw1.writeline("`$my_encrypted_string > `"$INSTALLER\password.txt`"")
# Read Encrypted password from txt file
$sw1.writeline("`$my_secure_password_string = convertto-securestring (get-content `"$INSTALLER\password.txt`") -key (1..16)")
# Create Credentail variable by using username and password
$sw1.writeline("`$cred = New-Object System.Management.Automation.PSCredential `$Username,`$my_secure_password_string ")
# Create Manage Account
$sw1.writeline("New-SPManagedAccount -Credential `$cred")
# Web site name
$sw1.writeline("`$siteName = `"$SITENAME`"")
# Web site running port
$sw1.writeline("`$port = `"$SITEPORT`"")
# Host header
$sw1.writeline("`$hostHeader = `"`"")
# Web site URL
$sw1.writeline("`$url = `"http://$COMPUTERNAME`"")
# Application pool name
$sw1.writeline("`$appPoolName = `"$APPPOOLNAME`"")
# Managed Account name
$sw1.writeline("`$managedAccount = `"$COMPUTERNAME\$USERNAME`"")
# DB server name
$sw1.writeline("`$dbServer = `"$COMPUTERNAME\SharePoint`"")
# DB name
$sw1.writeline("`$dbName = `"WSS_Content_$SITEPORT`"")
$sw1.writeline("`$authenticationMethod = `"NTLM`"")
# Command let that will create sample app by using above declared variables
$sw1.writeline("New-SPWebApplication -Name `$siteName -Port `$port -HostHeader `$hostHeader -URL `$url -ApplicationPool `$appPoolName -ApplicationPoolAccount (Get-SPManagedAccount `"`$managedAccount`") -
```

DatabaseName `$dbName -DatabaseServer `$dbServer -AllowAnonymousAccess: `$allowAnonymous -
AuthenticationMethod `$authenticationMethod")
$sw1.close()

###################### EXECUTE THE Above created SCRIPT file AS AN
ADMINISTRATOR#############################
Start-Process powershell -verb runas -ArgumentList "-file $WEBAPP_FILE"
############ CREATING A POWERSHELL SCRIPT FILE TO CREATE A SAMPLE POOL and the sample app into
it################
New-Item $SITECOLLECTION_FILE -type file
$sw = new-object system.IO.StreamWriter($SITECOLLECTION_FILE)
Add the below command let in to the starting of the script
$sw.writeline("add-PSSnapin Microsoft.Sharepoint.powershell")
URL of site that we want to add in to pool
$sw.writeline("`$siteURL = `"http://$COMPUTERNAME`:$SITEPORT/sites/test`"")
$sw.writeline("`$owner = `"$COMPUTERNAME\$USERNAME`"")
$sw.writeline("`$secondOwner = `"$COMPUTERNAME\$USERNAME`"")
type of template (we can also use othter template)
$sw.writeline("`$template = `"STS#0`"")
$sw.writeline("`$description = `"`" ")
Command let that will add website in to pool.
$sw.writeline("New-SPSite `$siteURL -OwnerAlias `$owner -SecondaryOwnerAlias `$secondOwner -name
`"PowerShell for SharePoint`" -Template `$template -Description `$description")
$sw.close()
#################### EXECUTE THE SCRIPT AS AN ADMINISTRATOR#########################
Start-Process powershell -verb runas -ArgumentList "-file $SITECOLLECTION_FILE"
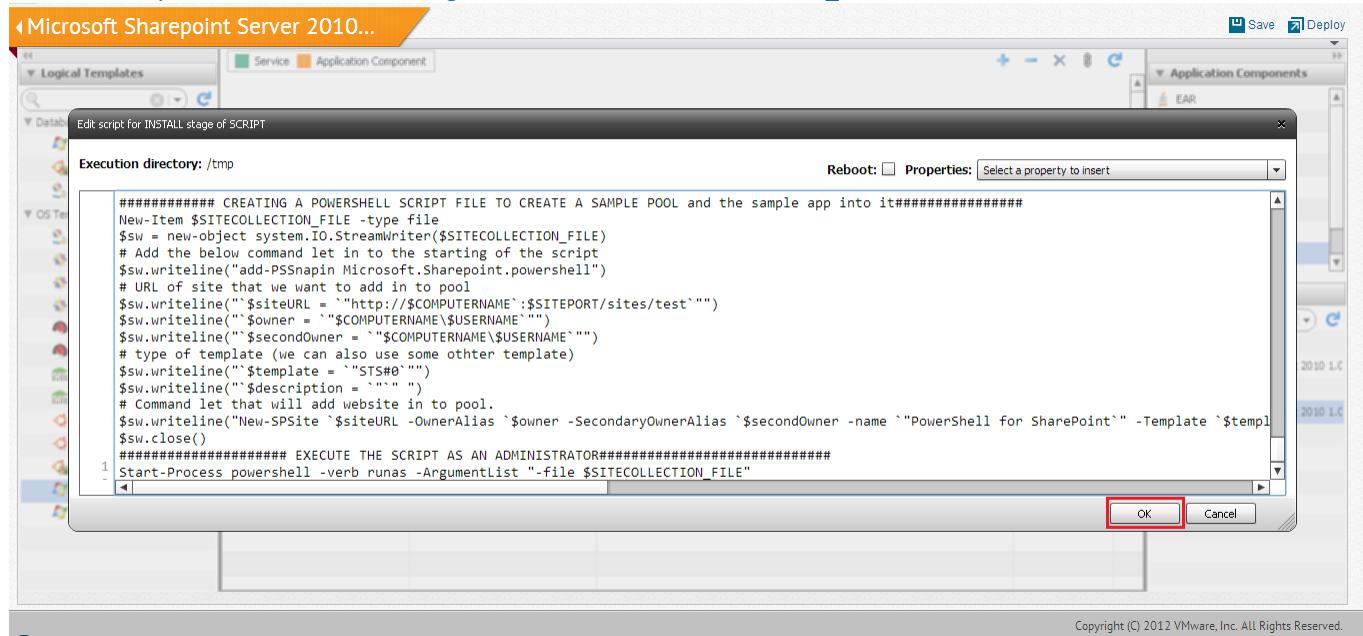
23. Now add the relationship from Sample_App towards "**Microsoft_Sharepoint_2010**" service
    Click on the Add relation icon
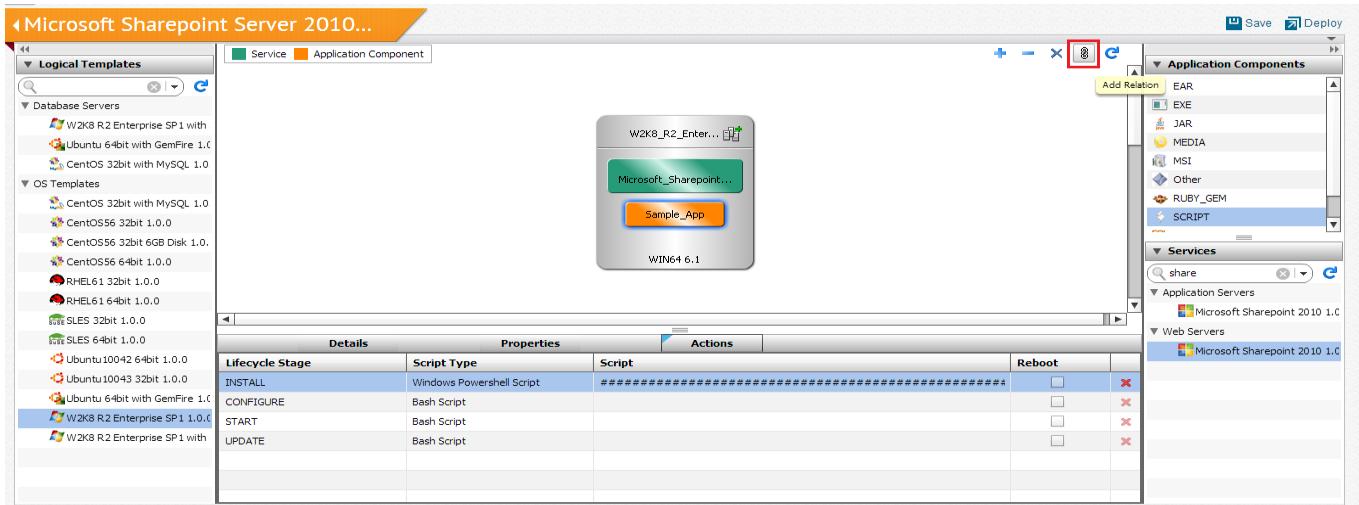
Click on **Sample_App** then over the mouse towards **Microsoft_SharePoint_2012** service and click on Microsoft_SharePoint_2012 service as shown
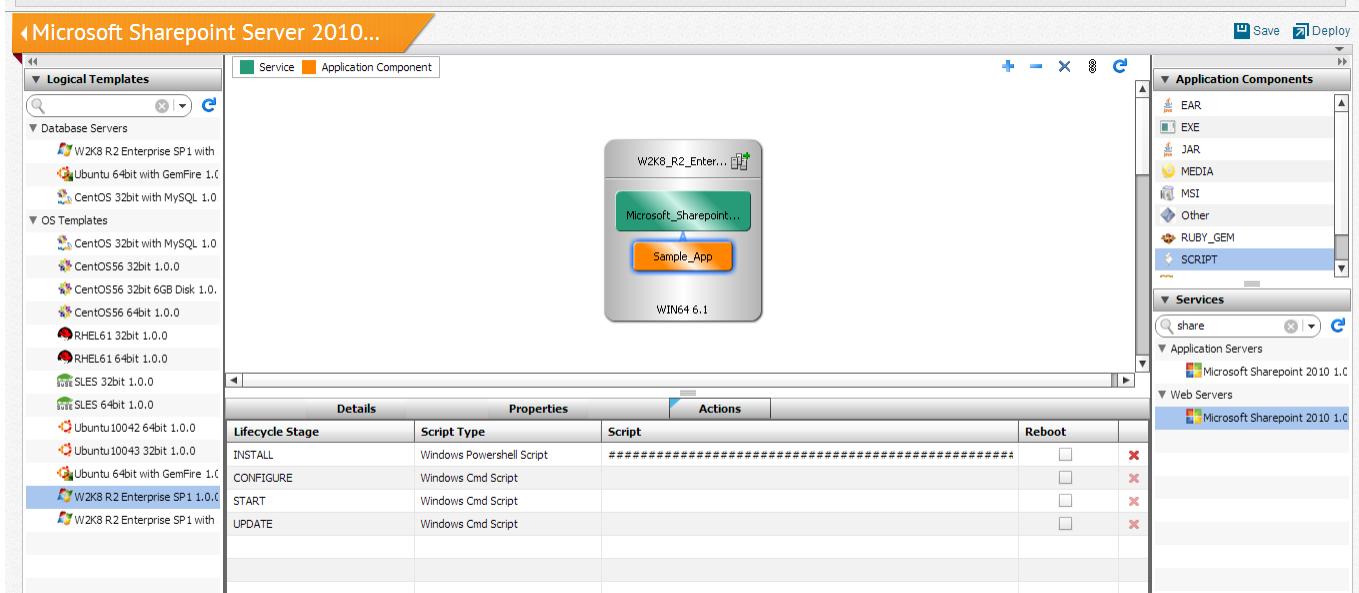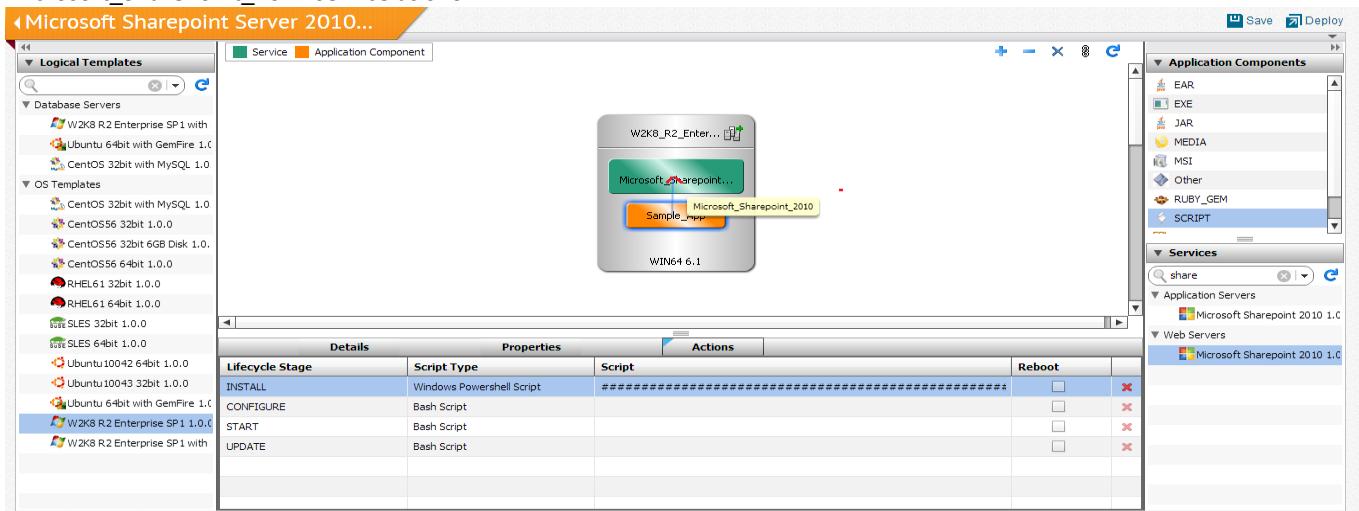
NOTE: Steps 15-23 are optional. These steps have been shown just to demonstrate the successful installation and start of the Microsoft SharePoint Server 2012 service.

24. Save the application

Method - 2: From Application director import-export service

1. Open the below link to create application on application director instance

   http://vmware-applicationdirector.github.com/solutions-import-beta/exportimport-deploy/appdir/docs/index.html?uname=vmware-applicationdirector&repo=solutions-import-beta&branch=sharepoint
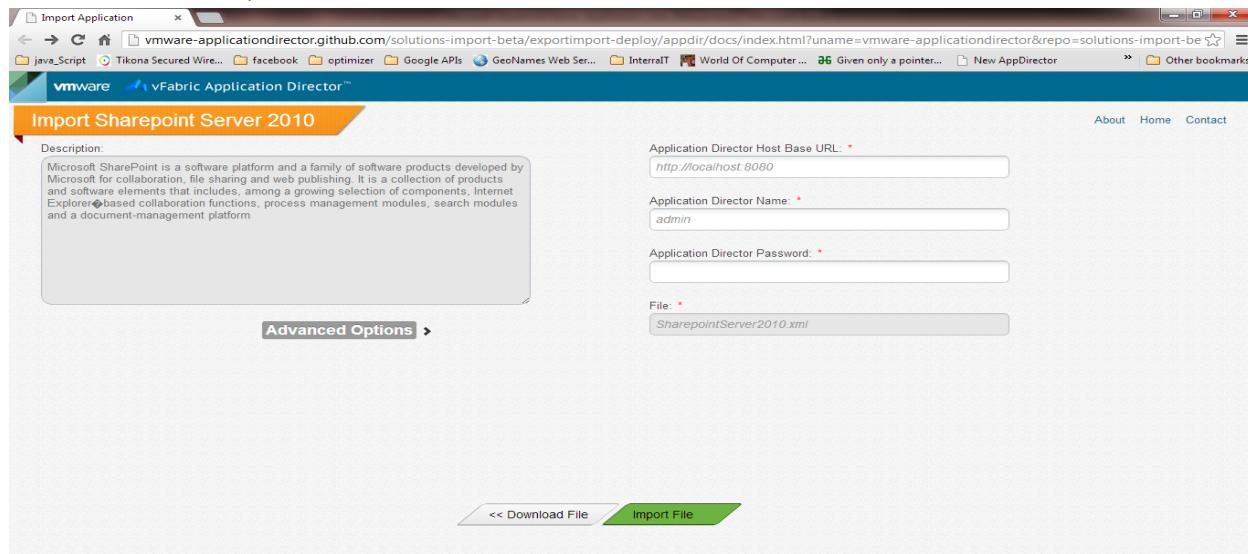
2. Type URL (http://app_dir_ip:8080) of the application director instance into which you want to create application as shown
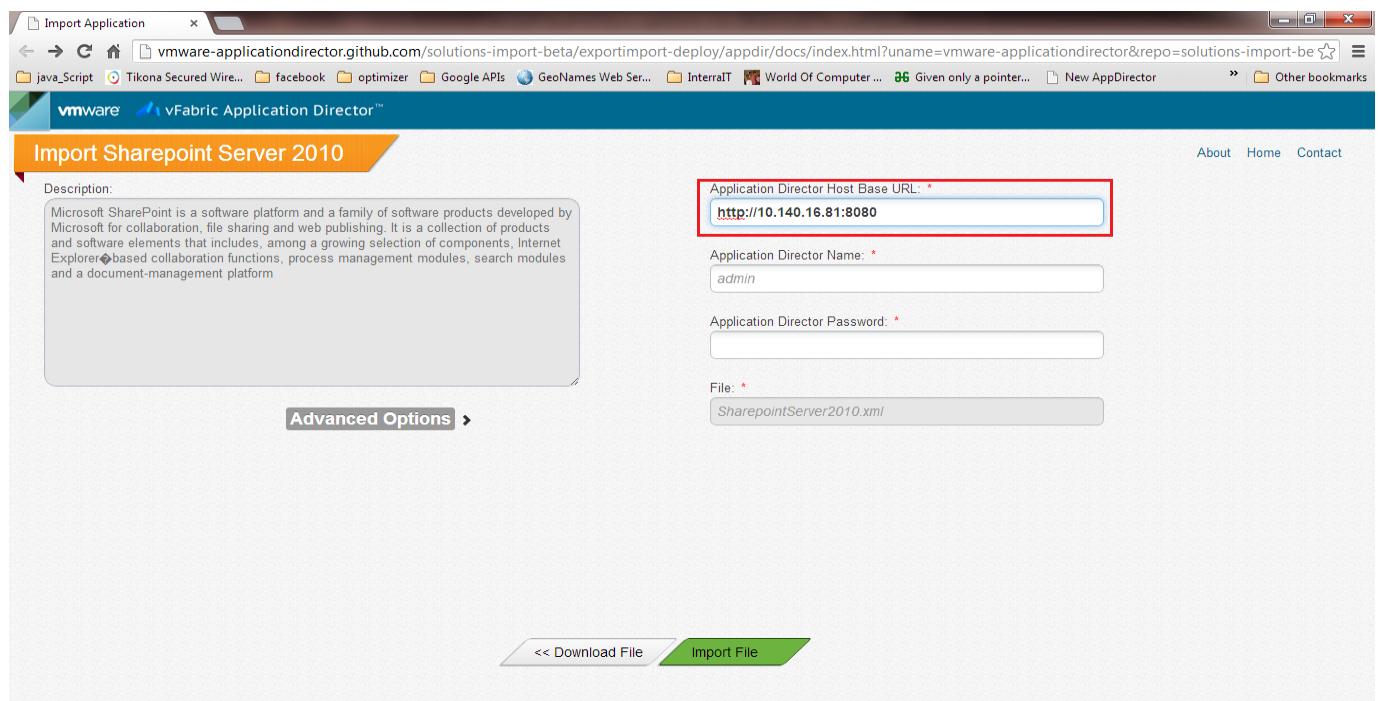
3. Type the application director user name and password in the text boxes as shown
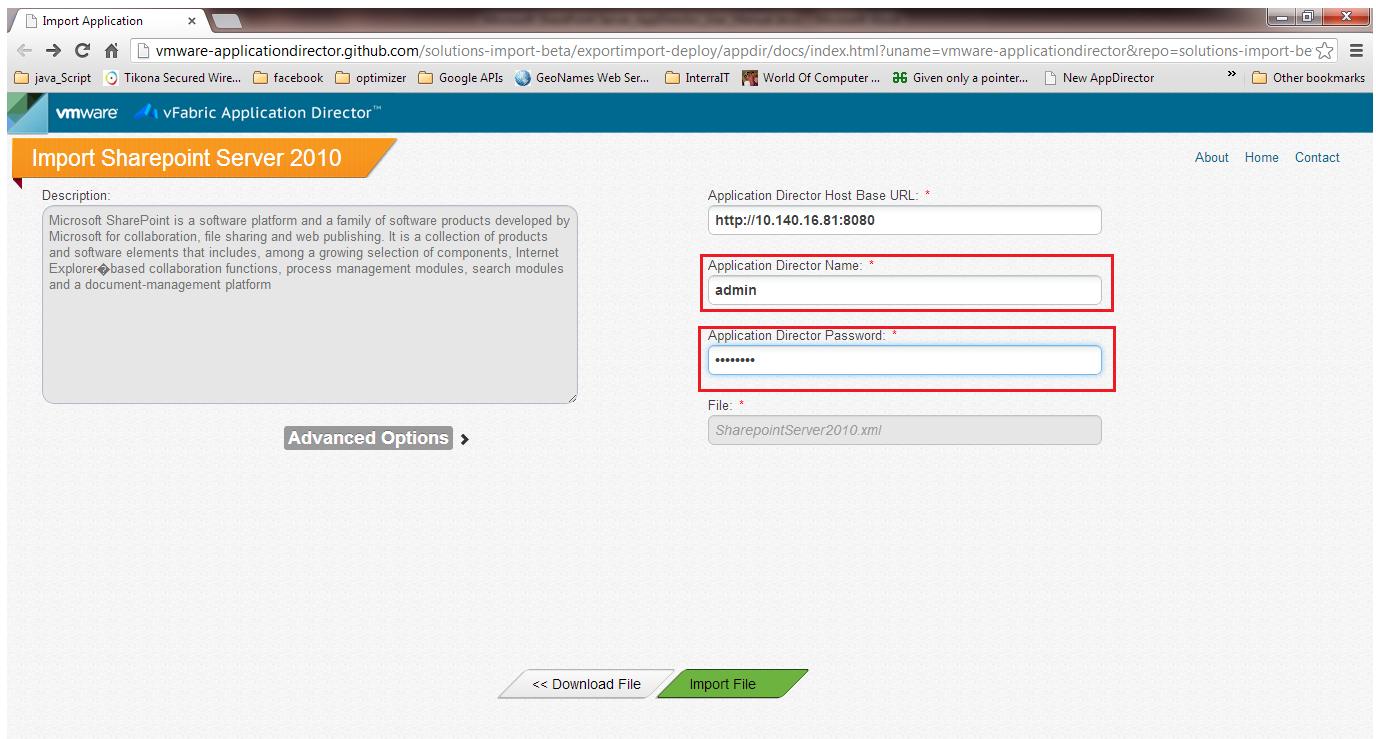
4. Now click on the arrow besides **Advanced Options** link as shown below
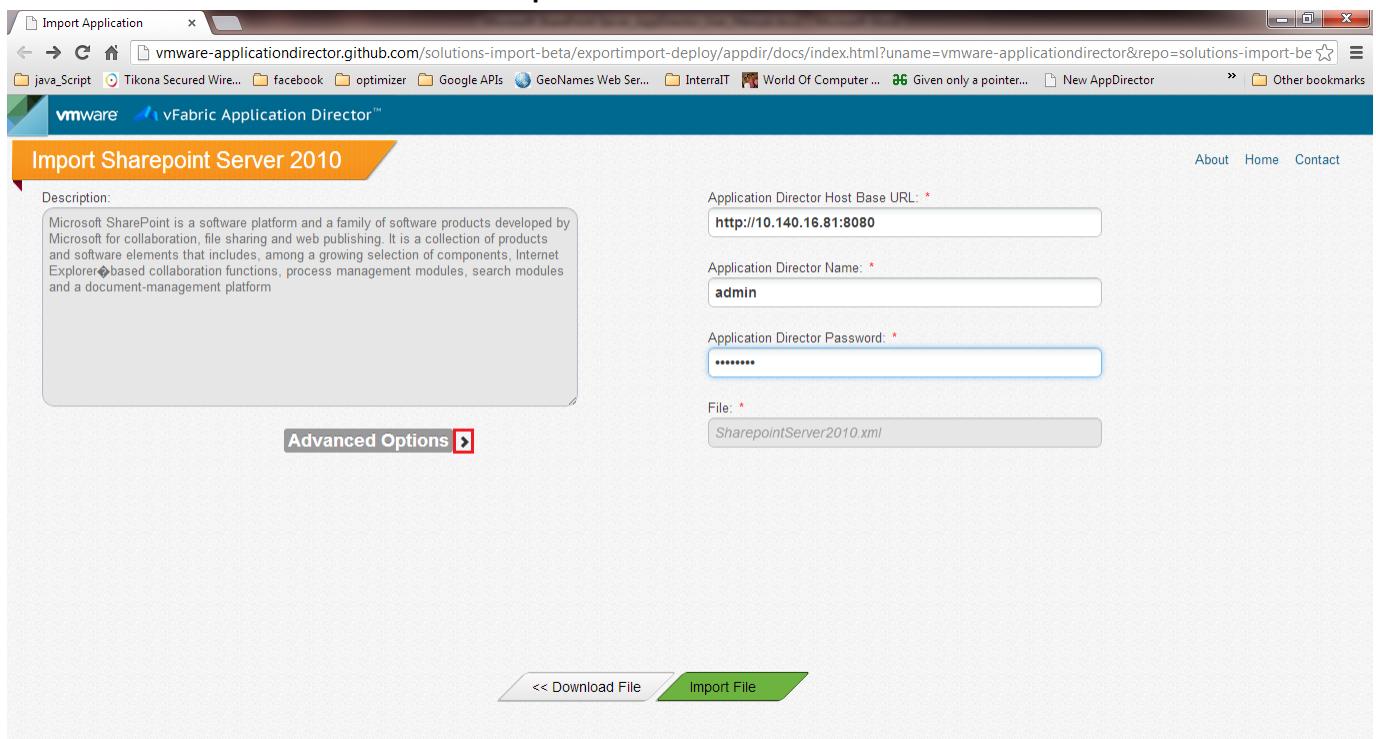
5. Then click on the third radio button "**New**" and type the name in the text box "**Import As New Suffix**"
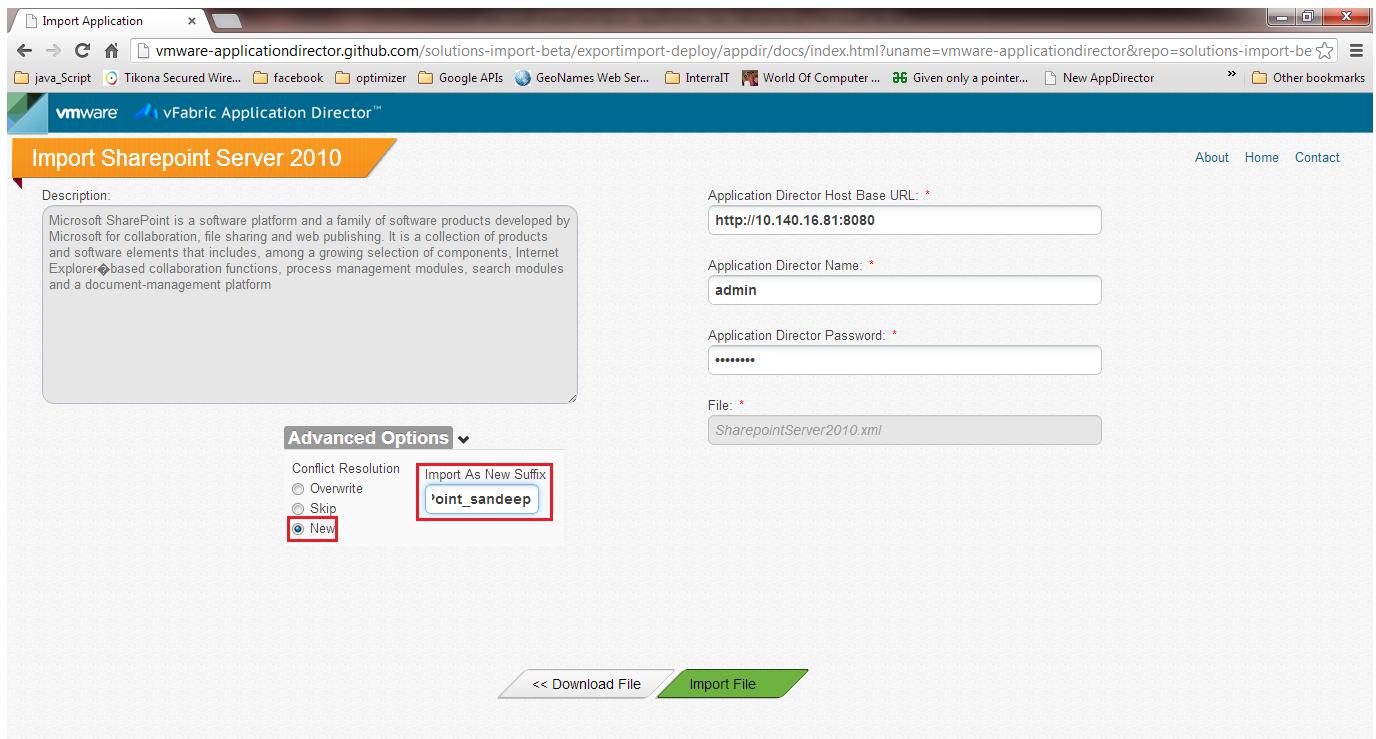
6. Click on the **Import File** button to create the application onto the application director instance.
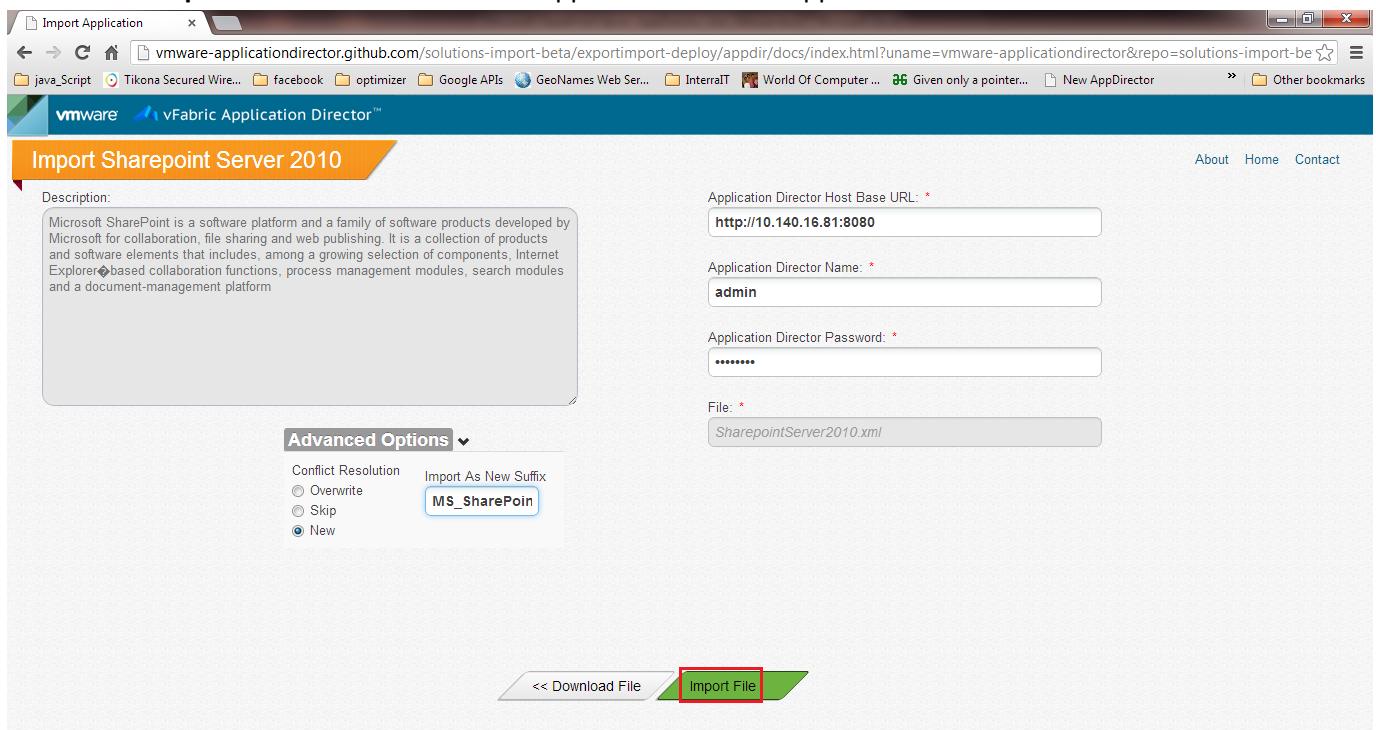
7. Wait for the task to complete.

8. After successfully import, we will have the link to deploy the SharePoint application.

Deploying the Microsoft SharePoint 2010 application

1. Click on the import link
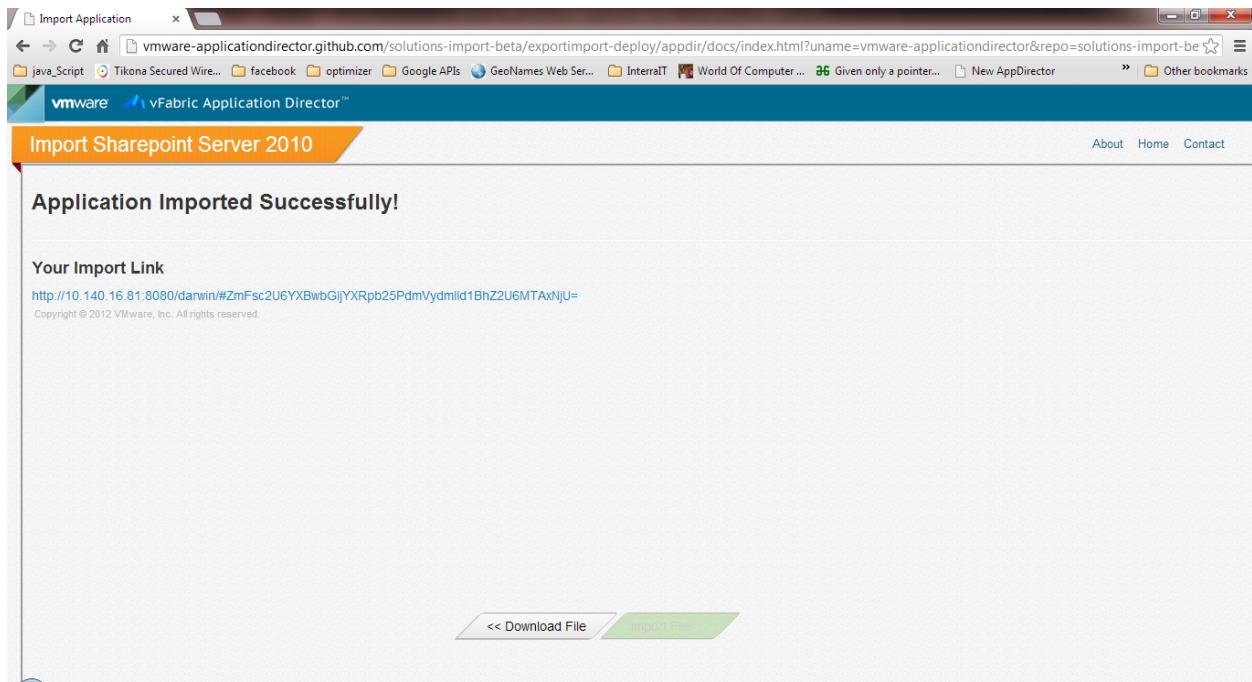
OR Login to the Application Director UI with the user which has the deployment rights.
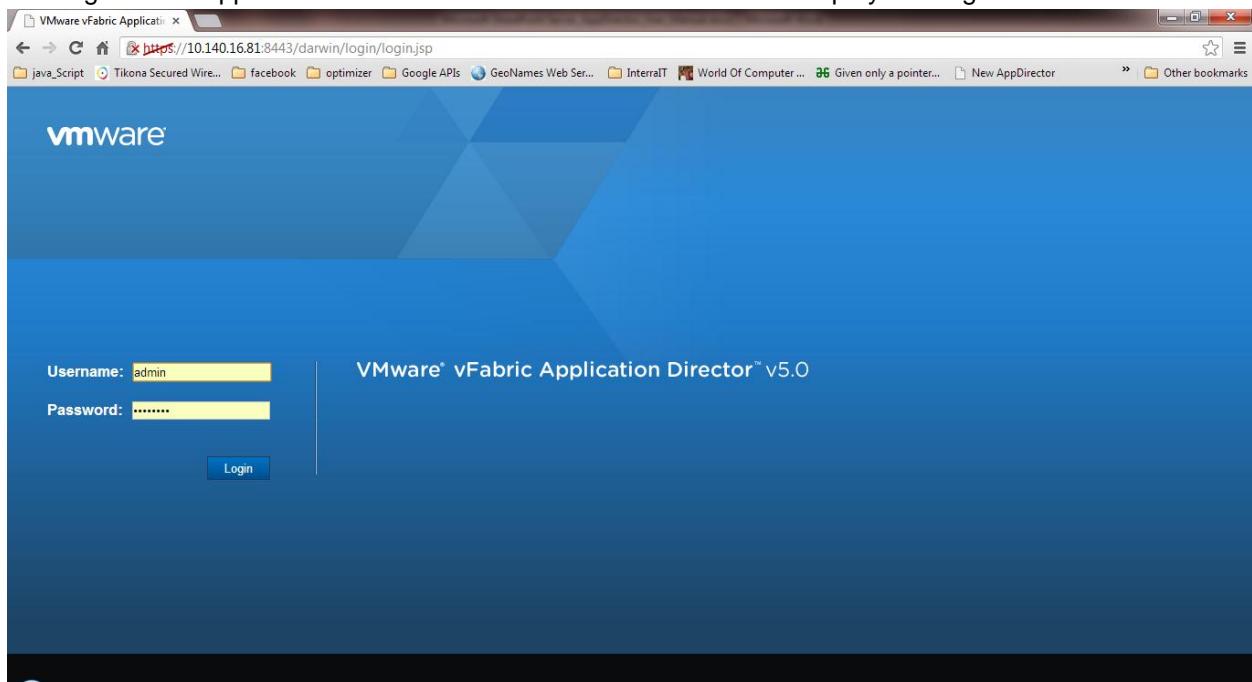
2. Click on the **Microsoft SharePoint Server 2010** Application in the Application List page.

3. Now click on the part circled with red color.

4. Click on the **Deploy** icon on the Blueprint page.

5. It will bring up the deployment profile window. You can enter new Deployment Profile Name or Choose from the existing Deployment Profile if no deployment profile is created yet.

6. Type the deployment profile name and click Deploy
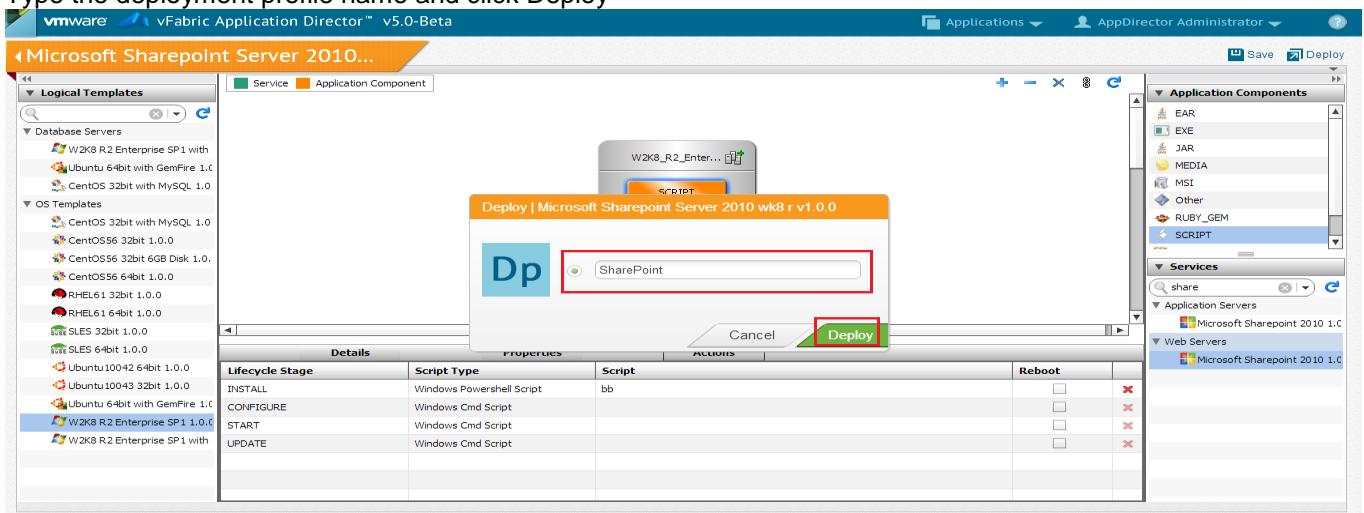
7. This will bring up the deploy wizard. Click on the "**Map Details**" button
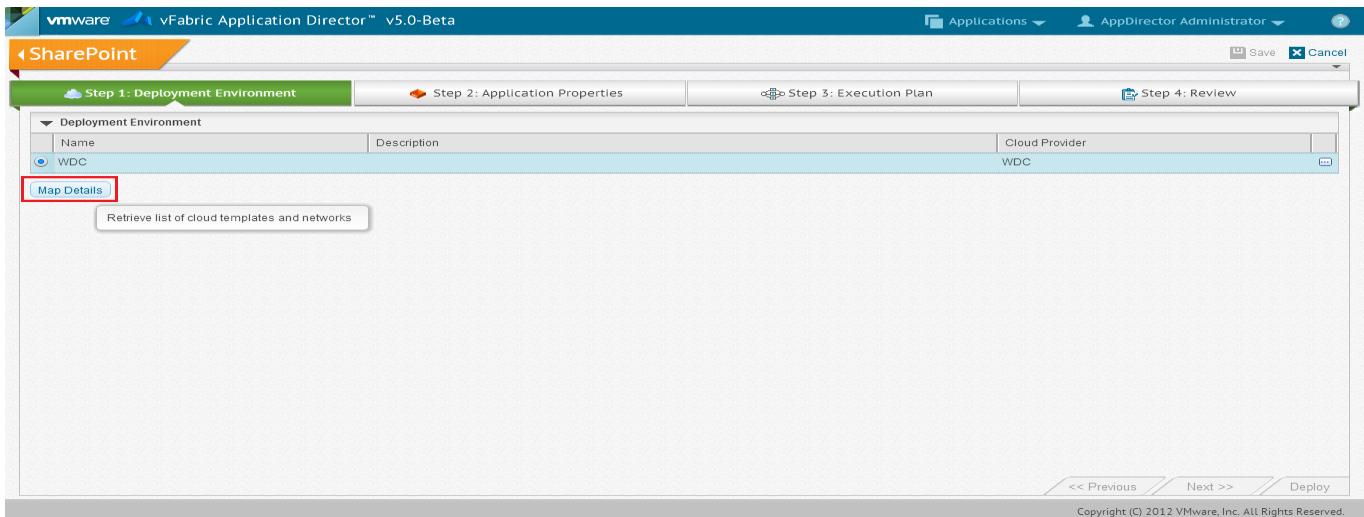
8. Select the appropriate **Cloud template** from the drop down list
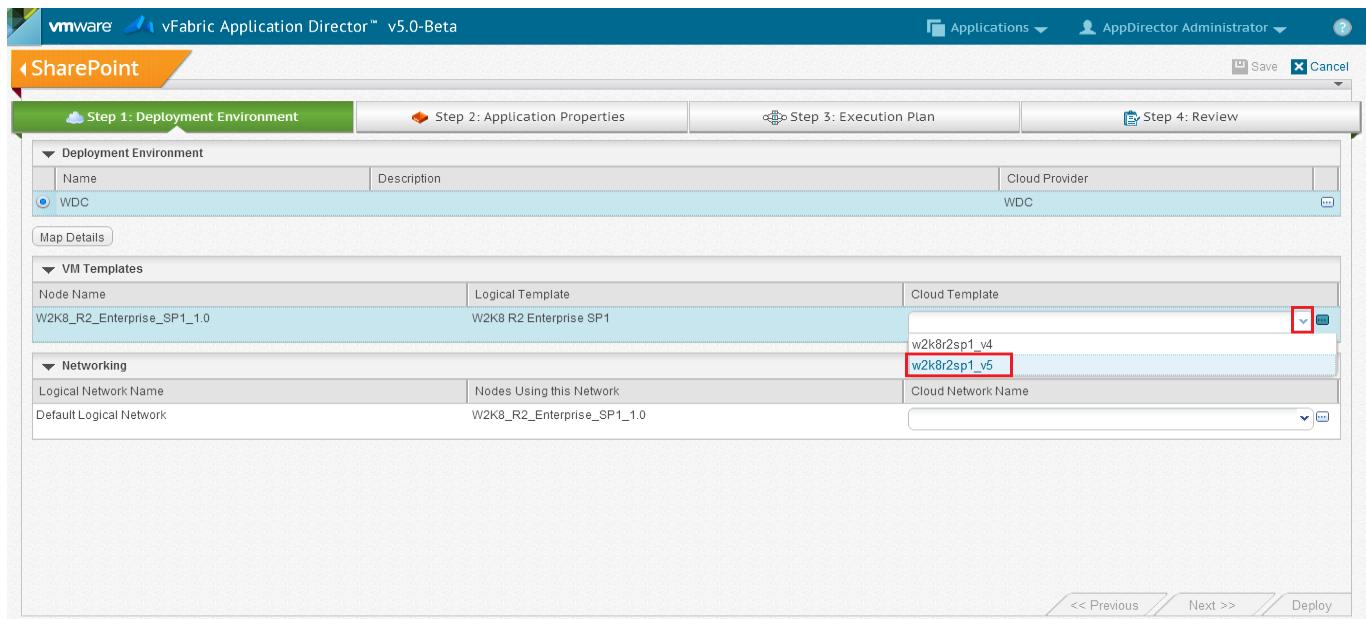
9. Now Select the appropriate **Cloud Network Name** from the drop down list
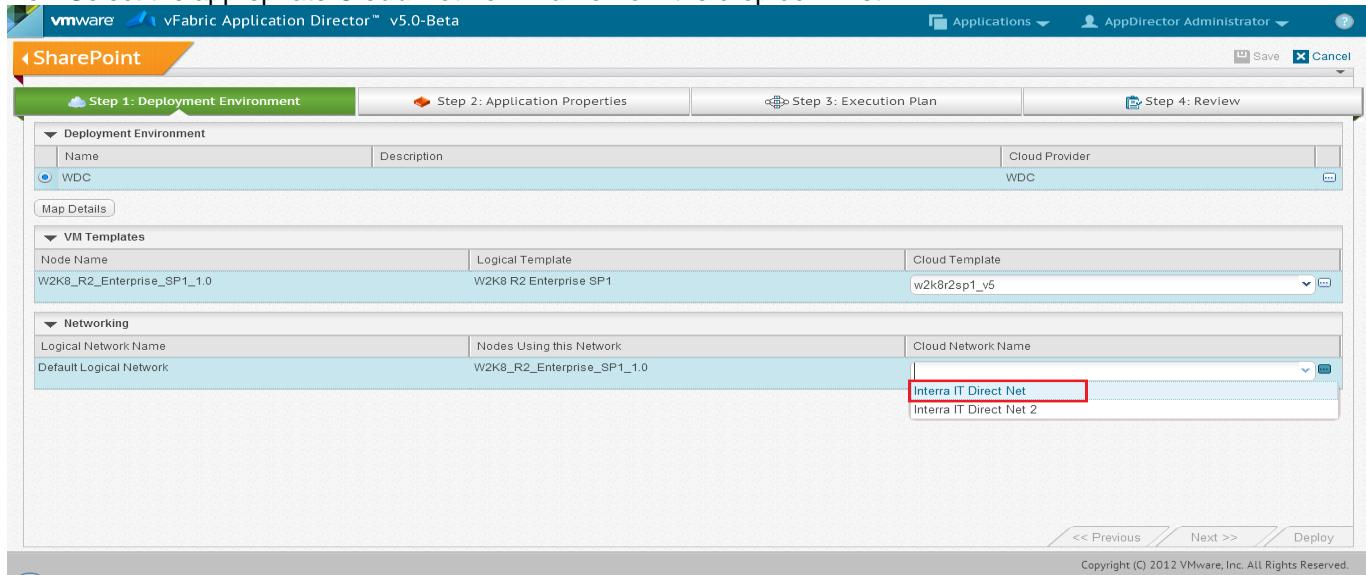
10. Finally click on **Next** button to see the Application Properties wizard

11. Click **Next** again to view the execution Plan

12. Click Next to deploy the application

13. Click **Deploy**

14. Wait for deployment details screen to come up. This will take a minute or so. At this time, the system is preparing to initiate the deployment
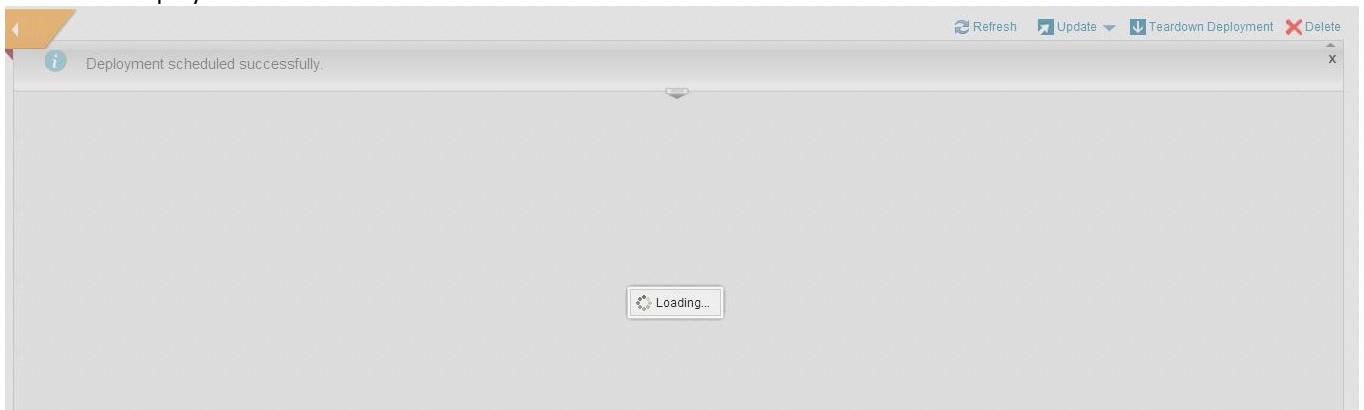
Verify Smoke test passed

1. Wait until the deployment status is reported as **Deployment Success**

Launching the Application

1. Click on the **VM Details** Page to get the IP of the machine. We will need this IP to launch the application

2. Open any browser. Enter Machine_ip:7001/default.aspx into the address field of the browser. If any prompt appear seeking for the credential. Enter right credential

3. Click on the Application Management

4. Now click on Manage Web Applications

5. This will open the page containing list of applications